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Ministry of
Northern Development
and Mines

Ontario Geological Survey
Open File Report 5960

Computer Data Relating to the Economic Geology and Geochemistry of Grenville Carbonate Rocks in Southeastern Ontario

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Computer Data Relating to the Economic Geology and Geochemistry of Grenville Carbonate Rocks in Southeastern Ontario

by

S. van Haaften and H.D. Meyn

1990

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V.G. Milne

V.G. Milne, Director
Ontario Geological Survey

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ACKNOWLEDGMENTS

The geochemical data provided with this documentation were previously published in paper form by Grant et al (1989). P.W. Kingston, Resident Geologist for MNDM's Southeastern District and a co-author of Grant, encouraged the release of the data on disk, and critically read this documentation. O.P. Lavin did much of the original geochemical data processing which was published in Grant, and provided the geochemical data to Ministry of Northern Development and Mines (MNDM) in MS-DOS (1) format. O.P. Lavin also spent a day showing Tweed and Bancroft MNDM staff how to do computer data plotting.

K. Fell supplied the mineral occurrences ASCII file, MB_MINDE.TXT. She created this file from a database which she maintains in the Bancroft MNDM office, under the supervision of the Regional Specialist.

T. Chin, at the Publication and Cartographic Services Sub-Section of Ontario Geological Survey, provided on disk the sample descriptions which were published in Grant. The availability of these data on disk allowed the provided file SAMPLES.TXT to be created without re-keying information.

Computer Data Relating to the Economic Geology and Geochemistry of Grenville Carbonate rocks in Southeastern Ontario

by

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INTRODUCTION

This documentation accompanies other computer data files on the two 5 1/4-inch MS-DOS floppy disks which comprise Ontario Geological Survey Open File Report 5960. The data files contain information about carbonate and calc-silicate rocks which underlie the Central Metasedimentary Belt of the Grenville Province in southeastern Ontario. These economically-important marbles are mined to produce dimension stone, decorative aggregate, crushed and ground rock for mineral filler and other applications, talc and magnesium metal. They also have potential for producing graphite, wollastonite, and zinc.

Two of the data files contain whole rock and trace element geochemical analyses and sample locations for 1913 samples which were collected across the marble belts, and another file contains sample descriptions, including mineralogy ("impurities"). These geochemical and sample description data were previously published in paper form by Grant et al (1989) together with data interpretations and geological mapping reports. The fourth data file contains quite detailed information about 636 mineral occurrences which occur within Grenville marbles.

The data can be used with a personal computer to plot the spatial relationships between, for example, known occurrences of graphite, and graphite-bearing samples in the rock sample data set. The locations of rock samples with a specific composition can be plotted on a map together with, for example, known occurrences of zinc and the locations of rock samples which are anomalous in zinc. Data subsets such as data from individual marble belts can be examined. Within some areas the sample distribution is uniform enough to allow a reasonable attempt at contouring. An example is contouring of silica values to identify areas of low-silica marble which might be valuable for producing mineral fillers.

Computer analysis of the marble-related data is an ongoing project in MNDM's Southeastern District, and potentially economic marble areas which are suggested by this work will be examined in the field during 1991. The data have been prepared on floppy disk for Open File release, so that prospectors and the exploration industry may use them now.

DATA FILES

The data files which are provided with this documentation are described below:

CARBRX.TXT	188163 bytes:	Comma-delimited ASCII file containing whole rock and trace element geochemical analyses and sample locations for 1781 rock samples which were analyzed by x-ray fluorescence.
ICP_RX.TXT	28169 bytes:	Comma-delimited ASCII file containing whole rock and trace element analyses and sample locations for 132 rock samples which were analyzed using an Induced Couple Plasma Spectroscopy system. Reflectance data are included for 49 of these samples.
SAMPLES.TXT	62424 bytes:	Comma-delimited ASCII file containing sample description information for 1854 of the rock samples.
MB_MINDE.TXT	331520 bytes:	Delimited ASCII file containing information about 636 mineral occurrences which occur within Grenville marbles.

CARBRX.TXT and ICP_RX.TXT should be used separately, because their data came from different laboratories which used different analytical techniques.

OTHER COMPUTER FILES

The following other computer files are also supplied:

README.TXT : This documentation.

READ.ME : Brief documentation for disk 2.

CARBRX.DBF
ICP_RX.DBF
SAMPLES.DBF
MB_MINDE.DBF

: Empty dBase III plus (2) data files suitable for importing the corresponding delimited ASCII files. For example, in dBase III Plus the following commands can be issued:

```
.use carbrx
.append from carbrx.txt delimited
.clear all
```

After these commands have been carried out the file CARBRX.DBF will contain the data from CARBRX.TXT. This operation should be carried out in a hard disk subdirectory, because a 360 kb floppy disk will not have room for both CARBRX.DBF containing all data, and CARBRX.txt.

LIMITATIONS OF THE DATA

Grant et al (1989 p.10,11) in referring to the geochemical data, stated:

> "There was no special effort to sample the cleanest marble, but from later examination of the sample sites, it can be assumed that the marble sampled in the early part of the project is better than average for the sampled outcrop...
>
> The majority of samples discussed in this publication ... were submitted as pulps and analyzed by the Geoscience Laboratories of the Ontario Geological Survey, Toronto. The pulps for these samples were prepared in Tweed using a rock crusher and grinder under less than ideal laboratory conditions. For this reason some small inconsistencies in sample analyses have arisen. However, this does not affect the total CaO and MgO contents, which are of primary interest."

There is also a possibility of transcription errors in data sets as large as the ones which are provided. The ICP_RX data, and a subset of CARBRX data, were checked against the original laboratory analyses. As a result, some values in the computer files are different from those which were published by Grant. The author can be contacted at the Tweed MNDM office, telephone (613) 478-3161 for enquiries and possible updates to the data.

Despite their limitations, it is felt that the data files provided form a valuable geological and geochemical data set, which can be very useful in helping to choose areas for mineral exploration.

USE OF THE DATA

Software which is used with the Data

In the Tweed office of MNDM the marble data are used with the following software:

Q'Gas (3) geochemical analysis software.

dBase III Plus (2) database management software.

Surfer (4) map plotting and contouring software.

and

AutoCAD (5) computer-aided drafting software.

The MB_MINDE marble-hosted mineral occurrence data are maintained in the Bancroft office of MNDM using Inmagic (6) text-retrieval database management software. It is not necessary to have the listed software, because the data are provided in a comma-delimited ASCII form which can be used with many different brands and types of software.

How the Data Files were Created

Q'Gas was used to perform the data analyses which were presented by Grant et al (1989). As a result, the two geochemical data sets existed on disk in Q'Gas format. The Q'Gas LISTER program was used to create ASCII files which were imported into dBase database files, edited, and exported as the comma-delimited ASCII files CARBRX.TXT and ICP_RX.TXT which are provided with this documentation.

Publication and Cartographic Services section of Ontario Geological Survey provided an ASCII file for "Appendix C, Sample Descriptions" in Grant (1989). Data from this file were imported into dBase and exported as the file SAMPLES.TXT which is provided.

Staff at the Bancroft office of MNDM used The Data Magician (7) software to create the comma-delimited ASCII file MB_MINDE.TXT, from their marble-hosted mineral occurrences database which uses Inmagic.

Working with the Data

In Tweed, the data are kept in dBase files. Any desired transformations of geochemical data can be done by creating new fields whose contents are calculated from existing fields. All UTM coordinates need to be mapped into grid zone 18 if data from across the entire map area are to be plotted on one map (Appendix A).

Two database files can be used together by employing dBase's "set relation to" command. Using data from more than two databases together requires that new databases be created which incorporate information from two or more of the provided data sets.

The dBase "set filter to" command can be used for quickly examining subsets of data. For example, the following dBase commands display data records for mineral occurrences which contain graphite:

```
.use mb_minde
.set filter to at("GRAPHITE",upper(comm_main))<>0.or.
               at("GRAPHITE",upper(comm_other))<>0
.browse fields record,township,comm_main,comm_other
```

Statistical analysis of the geochemical data can be done within dBase using user-written programs. The data can also be exported to programs which were designed for this task, such as Q'Gas or a spreadsheet program.

Map-Plotting of Data

The ongoing work in Tweed is focusing on map-plotting the locations of anomalous geochemical values, samples containing possibly economic minerals ("impurities"), and marble-hosted mineral occurrences. Map-plotting of graphite is described below as an example, using dBase, Surfer and Autocad one after another.

Working in dBase, symbol code fields are created in the files CARBRX and MB_MINDE to later tell Surfer what graphic symbol to plot at each location. One symbol code is used in CARBRX, and another symbol code is used in MB_MINDE, to distinguish the locations of rock samples which were collected for geochemistry from mineral occurrences which are documented in MB_MINDE.

CARBRX is used in dBase together with SAMPLES. Easting, northing, and symbol code are copied to a new database called GRAPHITE, for CARBRX samples where the SAMPLES database mentions graphite. Graphite mineral occurrence records are then appended to the newly-created GRAPHITE database from MB_MINDE.

Using dBase a comma-delimited ASCII file is finally created from GRAPHITE, which contains UTM coordinates and a symbol code for each graphite mineral occurrence or graphite-bearing rock sample. This new delimited ASCII file is used in Surfer to plot a map with symbols at all graphite mineral occurrences and graphite rock sample locations. Surfer can plot to a printer or plotter for hard copy, but it can also plot to a .dxf file which can be brought into Autocad, scaled, registered, and overlaid on a topographic or geology map.

SOFTWARE INFORMATION

The following software was mentioned in the text:

(1) MS-DOS is a trademark of Microsoft Corporation, 16011 NE 36th Way, Box 97017, Redmond, WA 98073-9717.

(2) DBase, and dBase III are registered trademarks of Ashton-Tate, 20101 Hamilton Avenue, CA 90502-1319.

(3) Q'Gas is copyright 1988, O.P. Lavin and Associates, P.O. Box 296 Station A, Kingston, Ontario, and copyright 1988 Queens University, Kingston, Ontario.

(4) Surfer is a registered trademark of Golden Software Incorporated, 807 14th Street, P.O. Box 281 Golden, Colorado 80402.

(5) AutoCAD is a registered trademark of Autodesk, Incorporated, 2320 Marinship Way, Sausalito, CA 94965-9910.

(6) Inmagic is a proprietary product of Inmagic Incorporated, 2067 Massachusetts Avenue, Cambridge, MA 02140-1338.

(7) The Data Magician is copyright 1990, Lawrence E. Folland, Folland Software Services, P.O. Box 1571, Guelph, Ontario N1H 6J6.

REFERENCES

Barringer Magenta 1983. File T3-0019A, reflectance test results for 49 carbonate rock samples.

Grant, W.T., Papertzian, V.C., and Kingston, P.W. 1989. Geochemistry of Grenville marble in southeastern Ontario; Ontario Geological Survey, Mineral Deposits Circular 28, 266 p.

Lavin, O.P. 1988. Archival Information accompanying Q'Gas data file CARB, provided to the Ministry of Northern Development and Mines in February 1988.

APPENDIX A: UTM COORDINATES

These coordinates are useful for plotting the data on maps using a computer. The data lie within grid zone 17 and grid zone 18. To plot the data on a single map, coordinates in grid zone 17 must be transformed so that they can be plotted with reference to grid zone 18. Archival information (Lavin, 1988) accompanying the CARBRX Q'Gas data stated:

> "Most coordinates are from UTM zone 18, but a few are from zone 17, therefore all zone 17 coordinates must be converted to zone 18. The calculations for coefficients for conversion were determined in the following manner.
>
> 1) The angle from grid 17 to 18 was determined to be 4 deg counter-clockwise by measuring the angle on the Campbellford 1:50000 map.
>
> 2) 4 points were determined from near the corners of the map in both sets of coordinates. They are listed below.

point	zone 17		zone 18	
	E	N	E	N
1	741000	4906000	262110	4905890
2	777000	4930000	299720	4927210
3	777000	4906000	298000	4903340
4	471000	4930000	263833	4929820

> 3) The zone 17 coordinates were rotated to the zone 18 angles mathematically by the following formula.
>
> new easting = (zone 17 easting * cos 4) + (zone 17 northing * sin 4)
>
> new northing = (zone 17 northing * cos 4) - (zone 17 easting * sin 4)
>
> 4) For both coordinates of each of the four points the the amount required to shift the zone 17 origin to the zone 18 origin was determined. Because the coordinates were manually determined, the required shift was slightly different for each point.

required shift

point	*easting*	*northing*
1	-819319	63530
2	-819287	63420
3	-819332	63492
4	-819261	63519
mean	-819300	63490

5) During crunch(*) of these data ... the zone 17 coordinates were converted to zone 18 coordinates by rotating the zone 17 coordinates 4 degrees counter clockwise and adding the average shifts shown in 4 above.

Caution: Because measurement of the angle and the coordinate shifts was by manual methods, they may not be accurate enough if the conversion is calculated over large distances. The errors will become apparent if the computer generated sample locations are overlaid on a sample location plan with both zone 17 and zone 18 samples."

For the provided file ICP_RX, utm coordinates were determined from the sample locations in grid zone 17 which were originally recorded on the topographic map 31D/16, Gooderham. ICP_RX grid zone 17 coordinates for ICP_RX data were originally transformed to zone 18 prior to data entry, by simply subtracting 475,000 meters from the easting.

UTM coordinates have not been transformed in the provided data sets, because it was expected that users of the data would want to do their own transformations.

(*) Crunch is Q'Gas' process for bringing raw, keyed-in data into its own special data format.

APPENDIX B: CARBRX.TXT INFORMATION

The CARBRX.TXT comma-delimited ASCII file was created from a dBase file with the structure listed below. The empty dBase database CARBRX.DBF is provided for convenient import of the ASCII data. Data fields in the ASCII file are in the same order as listed in the structure, and are separated by commas. Missing values (major elements in sample 470) were recorded as -1.

Structure for database: carbrx.dbf

Field	Field Name	Type	Width	Dec	Units
1	SAMPLE	Character	6		
2	SIO2	Numeric	5	2	percent
3	CAO	Numeric	5	2	percent
4	MGO	Numeric	5	2	percent
5	AL2O3	Numeric	5	2	percent
6	FE2O3	Numeric	5	2	percent
7	K2O	Numeric	5	2	percent
8	NA2O	Numeric	5	2	percent
9	MNO	Numeric	5	2	percent
10	TIO2	Numeric	5	2	percent
11	P2O5	Numeric	5	2	percent
12	LOI	Numeric	4	1	percent - loss on ignition
13	PB	Numeric	6		ppm
14	ZN	Numeric	6		ppm
15	SR	Numeric	6		ppm
16	BA	Numeric	6		ppm
17	CU	Numeric	6		ppm
18	CO	Numeric	6		ppm
19	CR	Numeric	6		ppm
20	LI	Numeric	6		ppm
21	NI	Numeric	6		ppm
22	EASTING	Numeric	6		meters
23	NORTHING	Numeric	7		meters
24	ZONE	Numeric	2		- UTM grid zone
** Total **			130		

APPENDIX C: ICP_RX.TXT INFORMATION

The ICP_RX.TXT comma-delimited ASCII file was created from a dBase file with the structure listed below. The empty dBase database ICP_RX.DBF is provided for convenient import of the ASCII data. Data fields in the ASCII file are in the same order as listed in the structure, and are separated by commas.

Reflectance is provided in a character field because only 49 of the samples were tested for reflectance. Reflectance values are "reflectance at 450 NM" (Barringer Magenta, 1983), and are not the same as brightness. Brightness is measured in relation to light reflected from TiO2, which is considered to have 100 % brightness.

```
Structure for database: icp_rx.dbf
Field  Field Name  Type        Width     Dec    Units
    1  SAMPLE      Character       8
    2  SIO2        Numeric         7       4    percent
    3  CAO         Numeric         7       4    percent
    4  MGO         Numeric         7       4    percent
    5  AL2O3       Numeric         7       4    percent
    6  FE2O3       Numeric         7       4    percent
    7  K2O         Numeric         7       4    percent
    8  NA2O        Numeric         7       4    percent
    9  MNO         Numeric         7       4    percent
   10  TIO2        Numeric         7       4    percent
   11  P2O5        Numeric         7       4    percent
   12  LOI         Numeric         7       4    percent - loss on
   13  PB          Numeric         8       2    ppm         ignition
   14  ZN          Numeric         8       2    ppm
   15  SR          Numeric         8       2    ppm
   16  BA          Numeric         8       2    ppm
   17  CU          Numeric         8       2    ppm
   18  CO          Numeric         8       2    ppm
   19  CR          Numeric         8       2    ppm
   20  LI          Numeric         8       2    ppm
   21  NI          Numeric         8       2    ppm
   22  F           Numeric         8       2    ppm
   23  BE          Numeric         8       2    ppm
   24  CD          Numeric         8       2    ppm
   25  TH          Numeric         8       2    ppm
   26  ZR          Numeric         8       2    ppm
   27  V           Numeric         8       2    ppm
   28  MO          Numeric         8       2    ppm
   29  AG          Numeric         8       2    ppm
   30  S           Numeric         7       4    percent
   31  REFLECT     Character       2            percent
   32  EASTING     Numeric         6            meters
   33  NORTHING    Numeric         7            meters
   34  ZONE        Numeric         2                      - UTM grid
** Total **                      246                        zone
```

APPENDIX D: SAMPLES.TXT INFORMATION

The SAMPLES.TXT comma-delimited ASCII file was created from a dBase file with the structure listed below. The empty dBase database SAMPLES.DBF is provided for convenient import of the ASCII data. Data fields in the ASCII file are in the same order as listed in the structure, and are separated by commas.

```
Structure for database: samples.dbf
Field  Field Name  Type       Width    Dec
    1  SAMPLE      Character      9
    2  COLOR       Character     12
    3  GRAIN_SIZE  Character     10
    4  IMPURITIES  Character     27
    5  STRUCTURE   Character     10
** Total **                      69
```

The following text was quoted from Grant (1989):

> "Descriptions of outcrop geology were taken for each of the samples in order that correlations might be made with analytical results. These descriptions are on file at the Office of the Resident Geologist, Southern Region, Tweed. Brief summaries of the sample descriptions are given using appropriate symbols for the different sample characteristics and impurities."

The following codes are used within fields in SAMPLES.TXT:

Color:

w - white
g - gray
lg - light gray
dg - dark gray
mg - medium gray
pk - pink
bl - blue
or - orange
bf - buff
lbf - light buff
y - yellow
br - brown
bk - black

Grain Size:

f - fine (<1 mm)
m - medium (2 to 4 mm)
c - coarse (>5 mm)

Impurities:

bio - biotite
phlog - phlogopite
mus - muscovite
q - quartz
gf - graphite
sp - sphalerite
hem - hematite
mag - magnetite
serp - serpentine
fel - feldspar
act - actinolite
aug - augite
talc - talc
chl - chlorite

Impurities, continued:

clots - clots
hb - hornblende
py - pyrite
c-s - calc-silicates
trem - tremolite
tour - tourmaline
lim - limonite
diop - diopside
gt - garnet
cp - chalcopyrite

Structure:

mas - massive
lam - laminated
fol - foliated

APPENDIX E: MB_MINDE.TXT INFORMATION

Staff at the Bancroft office of MNDM created the comma-delimited ASCII file MB_MINDE.TXT from their marble-hosted mineral occurrences database which uses Inmagic. The empty dBase database SAMPLES.DBF is provided for convenient import of the ASCII data. Data fields in the ASCII file are in the same order as listed in the dBase file structure listed below, and are separated by commas.

MB_MINDE.TXT has variable-length fields, and may work better with database software that uses variable-length fields, than with dBase. Importing MB_MINDE.TXT into the .dbf file provided causes some information to be truncated. Increasing field lengths in the empty dBase file before importing data can minimize this problem, at the expense of disk space.

Structure for database: mb_minde.dbf

Field	Field Name	Type	Description
1	RECORD	Character	Inmagic record number
2	OCCNA	Character	occurrence name
3	ALTNA	Character	alternate name(s)
4	TOWNSHIP	Character	township(s)
5	CON_LOT	Character	concession(s) & lot(s)
6	COUNTY	Character	county
7	COMM_MAIN	Character	main commodities
8	COMM_OTHER	Character	other commodities
9	ELEM_MAIN	Character	main element(s)
10	ELEM_OTHER	Character	other element(s)
11	HOSTR_M	Character	main host rock(s)
12	HOSTR_O	Character	other host rock(s)
13	CLASSIF_1	Character	classification of deposit
14	CLASSIF_2	Character	more deposit classification info
15	ZONE	Character	UTM grid zone
16	EASTING	Character	easting in meters

Structure for database: mb_minde.dbf, continued

Field	Field Name	Type	Description
17	NORTHING	Character	northing in meters
18	NTS_AREA	Character	NTS area
19	HOLE_TYPE	Character	type(s) of workings
20	SOURCE_1	Character	reference 1
21	SOURCE_2	Character	reference 2
22	SOURCE_3	Character	reference 3
23	SOURCE_4	Character	reference 4
24	SOURCE_5	Character	reference 5
25	SOURCE_6	Character	reference 6
26	SOURCE_7	Character	reference 7
27	SOURCE_8	Character	reference 8
28	SOURCE_9	Character	reference 9
29	SOURCE_10	Character	reference 10
30	SOURCE_11	Character	reference 11
31	SOURCE_12	Character	reference 12
32	SOURCE_13	Character	reference 13
33	SOURCE_14	Character	reference 14
34	SOURCE_15	Character	reference 15
35	SAMPLE	Character	sample(s) in Bancroft MNDM office
36	STATUS	Character	deposit status
37	PROD_HIST	Character	production history
38	RESERVES	Character	reserves
39	NOTES	Character	notes
40	PROJECT	Character	project code

The following special codes are used in the deposit classification fields:

D indicates that a deposit type description follows, for example "D-contact metasomatic."

HR indicates that a host rock description follows, for example "HR-mafic metavolcanics".

- end of file -

SAMPLE	SIO2	CAO	MGO	AL2O3	FE2O3	K2O	NA2O	MNO	TIO2	P2O5	LOI	PB	ZN	SR	BA	CU
2	1.28	29.62	20.55	0.08	0.08	0.01	0.01	0.05	0.01	0.01	39.2	5	20	150	220	6
3	0.01	29.85	20.81	0.07	0.12	0.01	0.01	0.01	0.01	0.01	40.4	5	15	90	80	8
4	20	24.52	13.64	1.63	4.51	0.37	0.01	0.2	0.11	0.04	30.6	5	38	400	120	10
6	12.5	26.08	17.76	1.78	1.61	0.31	0.01	0.1	0.1	0.27	35.9	5	92	320	100	7
7	6.42	43.37	2.2	0.52	1.28	0.21	0.01	0.08	0.03	0.05	35.8	5	17	1000	450	6
8	1.27	53.81	1.48	0.53	2.39	0.16	0.01	0.36	0.01	0.05	41.5	26	28	220	170	12
9	2.03	55.88	1.31	0.72	0.1	0.42	0.01	0.02	0.02	0.01	40.6	5	11	570	350	12
10	10.5	47	1.73	0.25	0.05	0.02	0.01	0.04	0.01	0.01	35.1	5	10	170	330	7
11	9.2	27.31	19.06	0.26	0.87	0.06	0.01	0.05	0.01	0.01	40.6	5	14	70	80	6
13	2.71	28.38	19.21	1.01	0.99	0.25	0.01	0.04	0.04	0.01	44.9	5	15	60	90	9
14	5.51	48.84	2.68	1.24	0.76	0.1	0.18	0.03	0.04	0.03	40.5	5	32	600	140	12
15	20	9.85	4.77	5	5.73	2	0.13	0.07	0.97	0.18	10.3	5	24	80	740	3
18	20	28.44	2.96	5	2.88	0.68	0.73	0.05	0.3	0.11	24.3	5	46	370	250	16
19	12	38.23	2.77	5	0.89	0.75	0.13	0.02	0.09	0.04	35.1	5	27	480	440	15
20	4.35	50.47	2.95	1.12	0.51	0.12	0.08	0.01	0.04	0.01	39.7	5	40	410	160	10
21	7.95	27.22	18.24	1.05	1.92	0.5	0.01	0.06	0.03	0.01	12	5	14	40	70	7
24	11.4	37.93	3.88	2.53	1.71	0.26	0.46	0.04	0.1	0.04	34.3	5	31	540	130	6
27	1.4	29.28	20.39	0.68	0.43	0.12	0.01	0.05	0.22	0.07	44.8	5	18	140	60	6
28	3.8	28.66	20.09	0.44	0.37	0.09	0.01	0.04	0.02	0.01	43.7	5	23	140	60	6
29	20	24.06	12.25	0.37	0.21	0.02	0.01	0.04	0.01	0.01	18.7	5	14	110	200	3
30	14.2	37.31	4.76	2.89	0.45	2	0.01	0.02	0.09	0.07	33.7	5	34	60	120	6
31	0.74	54.85	3.71	0.18	0.17	0.05	0.01	0.02	0.01	0.01	42.9	5	19	230	80	9
32	15.1	31.46	5.42	5	1.77	1.42	0.03	0.04	0.19	0.1	34.7	5	34	280	150	36
33	5.3	27.63	19.17	1.46	1.21	0.75	0.01	0.04	0.05	0.01	42.7	5	14	50	60	14
34	5.16	52.06	0.89	1.03	0.42	0.1	0.18	0.06	0.02	0.01	40.3	5	19	560	100	8
35A	5.08	47.57	2.48	1.97	0.53	0.47	0.13	0.06	0.11	0.04	40	5	44	310	220	320
35B	4.6	48.23	2.1	1.81	0.58	0.45	0.13	0.07	0.08	0.01	40.2	5	42	300	220	920
36	1.32	57.34	1.6	0.56	0.11	0.1	0.03	0.02	0.01	0	42.3	5	14	490	120	11
37	9.03	39.22	5.47	2.58	0.82	0.8	0.01	0.03	0.07	0.05	38.4	5	220	300	190	36
38	6.89	46.61	1.49	1.6	0.75	0.18	0.34	0.04	0.08	0.01	38.6	5	16	450	160	7
39	6.85	48.72	1.07	1.02	0.71	0.11	0.12	0.06	0.02	0.03	38.3	5	53	540	120	20
40	10.6	39.72	2.63	3.32	0.71	0.54	0.58	0.03	0.09	0.03	35.5	5	520	490	280	25
41	7.32	44.89	3.72	1.39	0.9	0.23	0.2	0.04	0.05	0.01	37.5	5	28	490	160	9
42A	12.5	27.01	19.06	0.1	0.01	0.01	0.01	0.01	0.01	0.01	36.8	5	14	140	170	3
42B	0.88	29.62	20.89	0.27	0.16	0.07	0.01	0.01	0.01	0.01	45.1	5	20	320	160	3
43	20	29.41	4.82	5	3.32	2	0.01	0.05	0.32	0.11	30.1	5	51	530	360	8
44	0.01	29.96	21.03	0.18	0.1	0.01	0.01	0.03	0.01	0.01	46.6	5	20	140	80	3
45A	2.04	53.92	2.86	0.61	0.27	0.29	0.01	0.03	0.01	0.01	43.2	5	13	360	130	6
45B	4.38	50.42	0.92	1.5	0.79	0.06	0.62	0.02	0.26	0.15	39	5	12	500	140	8
46	2.49	29.29	20.36	0.19	0.06	0.01	0.01	0.04	0.01	0.01	44.4	5	34	250	80	3
47A	20.3	30.26	16.29	0.08	0.01	0.01	0.01	0.06	0.01	0.01	29.1	5	34	2070	110	3
47B	0.01	30.7	20.17	0.09	0.01	0.01	0.01	0.03	0.01	0.01	46.4	17	38	1230	140	11
48	7.81	40.76	5.94	2.69	1.25	0.69	0.04	0.04	0.12	0.04	38.2	45	42	420	320	12
49	12.9	37.54	3.05	5	1.08	0.79	0.41	0.03	0.1	0.03	33.1	5	150	290	230	26
50	8.64	40.35	6.01	2.96	0.91	0.49	0.21	0.03	0.11	0.04	37.1	5	32	450	270	8
51	14.2	40.15	4.46	3.58	0.84	0.89	0.01	0.05	0.09	0.01	36.6	5	48	290	170	10
52	6.38	44.91	5.19	1.36	0.69	0.27	0.07	0.03	0.03	0.01	39.8	5	24	440	220	6
53	1.09	52.61	4.7	0.26	0.19	0.01	0.01	0.03	0.01	0.01	43	5	20	420	220	8
54	5.69	45.42	3.86	2.2	0.94	0.48	0.14	0.07	0.1	0.05	39.8	5	34	350	250	18
55	2.68	49.61	4.26	0.76	0.84	0.02	0.13	0.03	0.01	0.01	41.8	5	50	690	210	8
56	5.75	47.61	3.1	1.6	0.44	0.28	0.28	0.03	0.04	0.01	39	5	19	440	230	6
57	8.72	40.51	7.8	5	0.27	1.25	0.01	0.02	0.07	0.05	37.5	5	21	340	200	8
58	3.42	48.28	5.16	0.63	0.64	0.08	0.01	0.02	0.02	0.01	41.7	5	88	410	130	16
59	9.41	42.06	4.05	1.01	1.12	0.19	0.01	0.03	0.03	0.07	37.5	5	32	390	120	3
60	1.96	52.73	3.55	0.67	0.42	0.04	0.01	0.02	0.01	0.01	41.7	5	17	450	120	15

61	2.69	45.78	7.65	0.75	0.42	0.31	0.01	0.03	0.02	0.03	42.5	5	22	280	190	8
62	7.64	46.22	1.25	1.99	0.69	0.35	0.11	0.04	0.07	0.03	38.4	22	78	440	220	23
63	9.97	41.33	2.19	1.74	1.2	0.39	0.19	0.06	0.08	0.07	35.9	5	52	420	120	6
64	20	26.4	2.75	5	2.69	0.8	1.72	0.05	0.43	0.21	21.3	5	40	410	380	6
65	13.3	35.63	4.17	3.15	1.87	0.62	0.31	0.04	0.15	0.08	32.6	5	39	500	240	7
66	11.8	35.85	4.6	5	1.88	0.43	0.43	0.03	0.21	0.14	32.7	5	31	400	240	10
67	1.59	54.75	2.84	0.33	0.19	0.08	0.01	0.02	0.01	0.03	42.7	5	24	530	110	8
68	9.38	41.2	3.49	1.98	1.06	0.49	0.01	0.03	0.05	0.04	43.1	5	28	390	170	3
69	9.54	38.91	3.39	3.15	1.81	0.72	0.2	0.03	0.14	0.07	33.5	5	38	450	300	3
70	20	24.03	5.02	5	4.82	1.07	1.74	0.03	0.58	0.23	14.9	5	72	460	520	70
71	1.98	55.62	1.99	0.51	0.26	0.08	0.01	0.02	0.01	0.01	42.4	5	16	430	110	6
72	20	30	7.5	5	3.49	0.14	0.42	0.04	0.39	0.19	24.3	5	78	460	110	13
73	13.9	34.11	4.43	5	2.27	0.62	0.24	0.04	0.62	0.11	30.7	5	49	450	210	3
74	11.3	38	2.95	5	1.82	0.76	0.37	0.03	0.17	0.07	33.1	5	38	490	240	12
75	13.6	35.22	4.81	2.19	2.41	0.57	0.01	0.06	0.11	0.05	33	5	28	310	290	3
76	10.4	36.77	4.92	5	0.85	0.41	0.9	0.03	0.12	0.05	35.2	14	990	380	230	16
77	10.5	37.9	6.27	1.75	1.38	0.26	0.01	0.02	0.07	0.01	36.6	5	38	560	230	3
78	10.8	34.92	7.82	5	2.98	0.74	0.01	0.03	0.19	0.09	33.7	5	65	490	310	3
79	20	26.46	3.28	5	4.1	0.7	0.82	0.08	0.32	0.14	22.5	5	58	290	220	36
80	15.8	31.69	4.93	5	2.53	0.89	0.42	0.03	0.21	0.11	29.8	5	44	420	320	3
81	0.95	50.81	5.25	0.42	0.53	0.01	0.01	0.03	0.01	0.01	43.2	5	18	460	140	6
82	13.5	33.37	4.18	5	2.6	0.59	0.69	0.03	0.26	0.12	30	5	45	450	330	11
83	2.86	46.35	6.85	0.64	0.68	0.13	0.01	0.02	0.02	0.01	42.2	5	30	390	150	7
84	7.31	44.94	3.9	1.66	0.9	0.23	0.01	0.02	0.04	0.01	38.9	5	39	510	260	6
85	14.7	32.89	6.32	5	1.99	0.97	0.28	0.02	0.21	0.04	30.9	5	46	450	390	6
86	15.7	34.51	4.25	5	2.35	0.78	0.01	0.06	0.11	0.06	30.5	5	48	350	200	22
87	5.13	47.21	4.18	1.34	0.66	0.27	0.14	0.02	0.04	0.01	39.5	5	24	500	160	8
88	14.6	30.77	8.41	5	2.44	0.78	0.58	0.02	0.25	0.07	30.3	5	68	510	360	17
89	7.94	39.6	6.01	3.22	1.02	0.38	0.39	0.02	0.11	0.05	37.4	5	34	500	240	6
90	11.9	38.57	3.09	5	1.63	0.37	0.27	0.06	0.14	0.05	33.1	5	34	640	180	3
91	13.8	39.27	1.37	2.8	1.18	0.18	0.45	0.03	0.11	0.01	33.1	5	17	510	120	6
92	7.22	45.41	3.22	1.49	0.81	0.24	0.06	0.03	0.05	0.03	38.5	5	20	610	180	3
93	10.4	37.61	4.45	2.41	1.86	0.57	0.19	0.04	0.13	0.03	34.9	5	32	570	370	3
94	8.28	42.55	4.31	1.78	0.88	0.24	0.16	0.03	0.06	0.04	37.7	5	27	510	180	8
95	15.5	32.48	5.23	5	2.4	0.73	0.35	0.03	0.16	0.03	32.3	5	46	310	240	8
96	8.38	42.85	4.86	1.36	0.7	0.28	0.02	0.04	0.05	0.03	38.5	5	26	580	350	12
97	5.91	42.28	7.1	1.04	1.05	0.28	3	0.04	0.04	0.05	40.2	5	30	530	330	13
98	9.85	39.94	3.71	2.32	1.34	0.42	0.17	0.02	0.07	0.08	35.5	5	22	510	240	27
99	12.2	38.07	4.14	2.31	1.19	0.15	0.35	0.02	0.1	0.04	34.9	5	26	460	200	6
100	10	41.83	2.24	2.27	1.67	0.2	0.28	0.06	0.1	0.07	35.4	5	27	460	160	3
101	11.1	38.63	6.61	2.31	2.1	0.62	0.07	0.02	0.09	0.04	33.1	5	42	420	310	3
102	15.5	28.46	9.7	5	2.98	0.87	0.61	0.04	0.18	0.09	31.1	5	71	170	130	13
103	6.19	47.16	2.27	1.67	1.11	0.27	0.2	0.03	0.07	0.03	38.6	5	21	540	150	6
104A	0.56	58.74	2.48	0.27	0.11	0.16	0.01	0.01	0.01	0.01	43.3	5	14	200	130	6
104B	0.73	59.1	1.5	0.28	0.16	0.16	0.01	0.02	0.01	0.01	42.6	5	14	230	130	3
104C	2.19	54.93	2.96	0.71	0.07	0.45	0.01	0.03	0.01	0.01	40.1	10	14	230	150	3
105	5.7	50.11	1.91	1.2	0.37	0.69	0.01	0.03	0.02	0.03	39.2	5	18	130	180	7
106	2.67	53.86	2.97	0.83	0.24	0.48	0.01	0.02	0.02	0.01	42.1	5	22	620	130	7
107	20	25.09	4.03	5	5.8	1.16	1.16	0.06	0.49	0.17	18.7	5	66	370	320	32
108	20	24.02	3.78	5	5.84	1.32	1.94	0.06	0.56	0.26	12.9	5	88	380	470	64
109	20	24.14	5.21	5	5.61	2	1.38	0.03	0.64	0.23	15	5	111	360	700	3
110	15.7	31.99	2.52	5	2.73	0.41	1.2	0.08	0.22	0.1	31.3	5	38	480	140	3
111	20	31.85	2.32	5	2.26	1.19	0.01	0.06	0.21	0.08	32.2	5	21	400	300	3
112	9.66	43.85	0.82	1.56	1.14	0.05	0.31	0.09	0.06	0.05	35.7	5	14	450	150	3
113	16.4	31.17	6.18	5	1.79	1.13	0.44	0.02	0.22	0.11	28.4	5	52	540	470	3
114	20	26.57	3.03	5	3.94	0.62	1.42	0.1	0.36	0.19	21.1	5	48	320	230	32

115	13.6	35.35	3.01	5	2.3	1.02	0.03	0.04	0.23	0.11	31.1	5	38	420	260	11
116	20	30.74	3.79	5	1.87	0.9	1.08	0.05	0.21	0.12	37.3	5	33	420	2320	24
117	20	24.16	13.99	5	4.47	0.32	0.86	0.05	0.2	0.09	12.1	5	94	480	180	12
118	13	41.36	1.44	1.59	0.81	0.02	0.38	0.05	0.05	0.04	33.4	5	27	360	100	10
119	7.35	41.26	4.61	2.17	1.73	0.56	0.33	0.06	0.07	0.04	37.7	5	20	290	340	8
120	9.84	39.51	4.27	2.48	1.1	0.67	0.07	0.09	0.12	0.07	33.8	5	58	480	11500	32
121	6.21	43.85	8.32	1.04	0.89	0.1	0.01	0.04	0.03	0.05	36.8	5	20	240	190	18
122	1.8	57.61	1.04	0.43	0.47	0.07	0.01	0.04	0.01	0.01	42.2	5	52	330	130	8
123	10.4	37.15	14.91	0.65	0.42	0.01	0.01	0.17	0.02	0.06	36.3	5	148	90	60	6
124	20	24.45	4.75	5	4.05	1.13	0.86	0.04	0.37	0.15	17.8	5	44	430	480	23
125	9.37	40.98	2.47	3.38	1.4	0.93	0.01	0.05	0.1	0.05	37.3	5	27	480	220	8
126	11.9	37.02	2.64	3.12	1.07	0.53	0.22	0.05	0.1	0.06	35	5	16	3230	1960	44
127	10.2	35.37	5.15	2.84	3.79	0.69	0.2	0.17	0.15	0.06	34.3	5	48	500	190	3
128	6.85	42.36	5	1.7	0.94	0.5	0.1	0.03	0.06	0.04	38.7	14	26	420	190	7
129	20	24.29	13.97	2.96	3.6	0.06	1.22	0.06	0.1	0.2	29.9	5	10	120	50	3
130	2.63	28.93	20.51	0.35	0.58	0.11	0.01	0.04	0.01	0.01	45.2	5	14	40	60	6
131	20	24.06	6.2	5	4.17	1.79	1.38	0.04	0.51	0.16	16.8	5	82	310	500	20
132	20	32.09	3.56	2.76	2	0.14	0.09	0.05	0.13	0.06	30.6	5	38	350	240	3
133A	3.98	29.82	20.11	0.14	0.11	0.01	0.01	0.12	0.01	0.07	17.2	5	38	70	120	3
133B	20	26.05	17.86	0.14	0.23	0.01	0.01	0.07	0.01	0.01	42.8	5	38	70	90	3
134	0.52	54.35	4.75	0.21	0.1	0.05	0.01	0.02	0.01	0.01	43.2	5	15	250	150	6
135A	1.16	59.69	1.07	0.13	0.01	0.01	0.01	0.01	0.01	0.01	35.9	5	10	80	130	8
135B	5.26	44.96	2.38	1.75	2.28	0.57	0.01	0.01	0.09	0.1	42.2	5	14	110	120	10
136	2	59.07	1.68	0.15	0.01	0.01	0.01	0.02	0.01	0.01	42	5	12	90	120	7
137	2.96	29.03	20.19	0.49	0.41	0.02	0.01	0.06	0.01	0.01	45.6	5	12	40	80	6
138	5.01	50.73	4.18	0.96	0.61	0.45	0.01	0.04	0.02	0.01	39.2	5	28	360	140	7
139	20	25.21	5.11	5	3.33	1.36	1.26	0.04	0.19	0.05	21.8	5	46	320	270	18
140	20	26.81	6.85	5	5.61	0.2	1.4	0.05	0.34	0.12	23.9	5	44	240	120	13
141	12.8	35.22	3.25	5	1.55	0.45	0.79	0.04	0.2	0.1	31.8	5	26	420	140	48
142	9.85	39.66	3.6	5	1.38	0.84	0.16	0.03	0.12	0.05	37.2	5	33	560	270	10
143	20	27.06	4.07	5	4.38	1.35	0.78	0.1	0.37	0.15	24.1	5	104	330	2080	23
144	15.9	30.98	6.24	5	2.93	1.09	0.67	0.05	0.24	0.12	29.9	5	48	600	430	18
145	20	33.19	2.42	5	2.78	0.52	0.84	0.11	0.17	0.07	30.7	5	32	240	170	8
146	7.41	43.23	4.12	2.32	1.29	0.31	0.44	0.03	0.08	0.05	38	5	21	470	160	6
147	20	30.62	5.98	5	1.76	0.03	1.21	0.03	0.16	0.07	25.8	5	44	390	120	16
148	20	32.72	3.18	5	1.75	0.32	1.46	0.03	0.24	0.11	28.1	5	42	520	220	34
149	4.5	49.32	4.68	0.92	0.41	0.33	0.09	0.05	0.02	0.04	41	5	30	410	300	8
150	20	9.88	5.54	5	10	1.19	3	0.06	0.78	0.19	6.7	5	98	190	340	10
151	20	25.45	4.47	5	5.63	0.72	0.91	0.08	0.38	0.11	21.5	5	67	310	260	35
152	2.22	56.22	1.38	0.81	0.28	0.13	0.01	0.04	0.01	0.02	42.4	5	13	460	160	10
153	9.24	40.46	3.41	5	0.5	0.59	0.41	0.02	0.13	0.06	34.7	5	19	470	410	6
154	1.4	55.26	3.72	0.34	0.17	0.13	0.01	0.02	0.01	0.01	43.4	5	12	500	300	11
155	20	32.96	3.98	5	1.75	1.08	0.64	0.03	0.21	0.09	31.2	17	280	410	230	19
156	20	31.28	4.32	5	2.48	0.65	0.75	0.05	0.22	0.09	29.2	5	41	500	330	21
157	14.4	32.94	3.4	5	2.67	0.49	0.56	0.07	0.16	0.06	30.9	5	42	310	250	8
158	9.87	38.06	7.14	2.96	2.11	2	0.01	0.04	0.13	0.05	34.8	5	48	380	300	3
159	20	24.47	5.35	5	6.04	0.16	3	0.07	0.37	0.15	11.3	5	105	480	260	14
160	3.77	50.99	4.1	0.89	0.42	0.5	0.01	0.03	0.01	0.01	40.2	5	16	450	300	14
161	1.85	54.49	3.77	0.45	0.17	0.02	0.01	0.01	0.01	0.01	42.1	5	14	410	250	6
162	13.7	35.41	3.7	5	3.01	0.37	0.38	0.07	0.18	0.08	28.6	5	50	420	300	6
163	12.7	39.07	4.21	1.47	0.99	0.67	0.01	0.09	0.04	0.03	34	5	25	550	310	22
164	4.29	50.06	5.22	1.39	0.39	0.43	0.01	0.03	0.04	0.01	38.8	19	38	320	230	8
165	20	26.91	3.3	5	4.17	0.83	0.96	0.08	0.29	0.16	17.2	5	69	360	520	12
166	7.13	42.09	5.14	1.84	1.93	0.37	0.17	0.03	0.1	0.04	35.5	5	18	560	300	9
167	20	26.3	0.26	5	1.07	2	0.23	0.08	0.05	0.09	11	5	40	140	1210	10
168	20	24.03	4.46	5	5.37	0.49	3	0.05	0.49	0.23	8.2	5	93	420	270	43

169	10.3	36.56	4.57	2.93	2.02	0.42	0.59	0.04	0.17	0.08	33.1	5	23	530	290	11
170	8.36	43.23	2.91	2.16	1.43	0.41	0.1	0.03	0.1	0.04	33.2	5	40	560	270	16
171	5.31	50.33	4.13	0.39	0.35	0.02	0.01	0.03	0.01	0.01	39.2	5	14	120	260	6
172	2.43	56.2	1.7	0.64	0.21	0.15	0.01	0.04	0.01	0.03	40.4	5	36	170	320	12
173	1.38	55.15	3.1	0.36	0.27	0.06	0.01	0.03	0.01	0.01	41.5	5	17	410	320	6
174	6.03	47.62	2.78	1.15	1.23	0.12	0.01	0.06	0.04	0.04	35.6	5	28	640	230	7
175	8.9	43.03	3.77	1.49	0.41	0.04	0.51	0.02	0.02	0.01	34.4	5	44	390	330	12
176	8.78	41.76	2.35	2.27	1.78	0.32	0.31	0.04	0.16	0.04	33.8	5	30	780	360	6
177	20	26.65	3.2	5	4.06	0.83	1.3	0.08	0.46	0.2	18.1	5	58	650	350	16
178	11.8	42.07	4.46	0.99	0.65	0.07	0.2	0.05	0.02	0.01	32.9	5	20	320	320	17
179	7.84	40.6	5.15	2.13	1.3	0.39	0.36	0.02	0.09	0.01	36	5	27	400	220	3
180	20	27.77	3.74	5	3.39	1	0.8	0.04	0.39	0.09	20.9	5	46	450	470	24
181	20	26.37	4.13	5	4.15	0.53	1.15	0.06	0.36	0.15	18.6	5	62	520	200	19
182	3.61	50.35	3.96	0.83	0.26	0.18	0.09	0.02	0.03	0.02	41.1	5	24	390	230	10
183	7.69	41.41	4.56	2.05	1.75	0.14	0.36	0.04	0.1	0.04	33.9	5	38	540	210	3
184	4.74	49.67	2.53	1.1	0.62	0.19	0.08	0.04	0.03	0.03	2.5	5	22	480	270	20
185A	5.06	48.58	3.82	0.58	0.74	0.14	0.01	0.07	0.01	0.01	39	5	24	150	190	24
185B	10.8	31.26	12.2	0.69	3.85	0.26	0.01	0.08	0.03	0.01	30.3	5	16	60	70	167
186	11.7	36.3	2.88	5	2.83	0.66	0.38	0.07	0.21	0.09	31.6	5	31	490	270	12
187	12.8	33.19	6.02	5	3.59	0.91	0.12	0.05	0.23	0.08	29.3	5	28	390	270	10
188A	0.13	32.98	16.59	0.21	0.66	0.01	0.01	0.1	0.01	0.01	45.9	5	33	110	140	7
188B	0.01	29.82	20.31	0.15	0.93	0.01	0.01	0.06	0.01	0.01	46.6	5	45	150	140	6
188C	8.39	39.48	1.48	2.89	1.65	2	0.01	0.22	0.24	0.11	32.5	5	24	140	210	1840
189	3.36	30.48	17.73	0.15	0.61	0.01	0.01	0.08	0.01	0.01	44.7	5	32	110	110	12
190A	3.74	54.83	1.27	0.1	0.44	0.01	0.01	0.04	0.01	0.01	39.5	5	24	190	140	8
190B	8.06	49.52	1.93	0.11	0.03	0.01	0.01	0.02	0.01	0.01	37.2	5	26	450	770	9
191	2.54	29.2	20.31	0.17	0.14	0.01	0.01	0.04	0.01	0.01	44.8	5	44	60	40	8
192	11.6	27.25	18.2	0.32	0.39	0.01	0.01	0.07	0.01	0.01	38	5	34	60	60	6
193	0.61	32.74	17.74	0.36	0.22	0.03	0.01	0.04	0.01	0.01	41.7	5	48	190	280	6
194A	0.21	29.73	20.21	0.08	1.33	0.01	0.01	0.07	0.01	0.01	46	5	150	200	170	6
194B	6.48	29.51	20.15	0.13	1.68	0.01	0.01	0.08	0.01	0.01	45.8	5	150	210	150	6
195	7.59	27.23	17.23	1.29	4.5	0.23	0.01	0.18	0.04	0.07	40.8	5	115	810	80	8
196	6.05	28.48	20.73	0.2	0.1	0.04	0.01	0.02	0.01	0.01	42.1	5	21	300	170	7
197	2.02	47.36	7.36	0.57	0.45	0.34	0.01	0.03	0.01	0.01	42.5	5	36	340	60	10
198	2.26	52.54	1.99	0.81	1.04	0.43	0.01	0.07	0.04	0.01	40	5	22	450	210	8
199	20	26.63	2.99	5	1.94	2	0.81	0.03	0.28	0.14	16.2	5	54	460	670	8
200	20	24.02	4.15	5	4.45	0.33	1.87	0.04	0.45	0.22	3.6	5	106	370	80	16
201	20	26.9	2.76	5	2.64	0.12	1.69	0.06	0.25	0.12	16	5	44	350	60	8
202	20	30.24	3.7	5	2.84	0.9	0.36	0.03	0.31	0.14	23.2	5	50	330	150	40
203	6.3	46.34	3.68	1.38	0.51	0.22	0.15	0.03	0.04	0.01	38.7	5	36	600	180	16
204	15.7	33.78	2.06	5	1.59	0.84	0.35	0.06	0.21	0.21	27	5	38	680	320	6
205	20	27.17	3.41	5	3.7	0.43	1.41	0.05	0.33	0.19	16.8	5	92	420	130	8
206	9.74	38.49	3.24	5	1.98	0.54	0.35	0.04	0.2	0.13	33.8	5	34	650	180	10
207	13.3	32.53	5.79	5	3.35	0.12	0.72	0.05	0.19	0.11	26.5	5	40	400	200	30
208	20	20.37	4.4	5	7.42	0.32	3	0.11	0.76	0.25	5.8	5	92	370	130	32
209	7.37	44.29	2.1	2.02	1.41	0.01	0.33	0.05	0.08	0.01	35.1	5	31	420	70	7
210	13.8	35.42	3.56	3.54	2.64	0.47	0.52	0.05	0.2	0.07	29.1	5	48	600	250	8
211	20	27.92	3.8	5	2.89	0.58	1	0.04	0.38	0.15	21.2	5	71	520	420	52
212	20	24.1	2.85	5	0.54	0.3	3	0.04	0.45	0.11	17.2	5	14	70	70	10
213	20	29.11	3.18	5	2.64	1.22	0.55	0.03	0.28	0.12	23.4	5	42	340	170	44
214	20	26.97	3.38	5	3.79	1.3	0.7	0.07	0.37	0.19	21.1	5	57	430	500	8
215	16.1	34.25	1.84	5	2.28	0.73	0.28	0.07	0.25	0.12	30.1	5	30	420	200	22
216	5.55	53.59	0.57	0.35	0.3	0.01	0.01	0.03	0.01	0.01	39.5	5	21	130	90	9
217	7.64	46.37	1.33	1.27	1.03	0.01	0.12	0.07	0.04	0.03	37	5	37	510	70	10
218	7.47	44.76	2.31	2.01	0.56	0.03	0.59	0.04	0.06	0.1	36.7	5	16	490	90	16
219	1.72	53.35	2.74	0.69	0.66	0.12	0.01	0.03	0.01	0.01	41.8	5	20	680	120	8

220	15.7	32.57	2.39	5	2.65	0.41	0.97	0.07	0.24	0.11	28.3	5	26	460	160	24
221	20	27.8	3.46	5	3.99	0.8	0.9	0.08	0.34	0.13	24	5	62	390	140	17
222	20	26.15	6.72	5	4.31	2	0.68	0.04	0.4	0.12	23.3	5	50	310	250	22
223	12.2	33.45	4.77	5	2.22	0.47	1.16	0.03	0.16	0.11	29.4	5	16	330	100	10
224	9.25	41.17	1.6	3.01	2	0.15	0.59	0.07	0.14	0.07	30.4	5	40	400	100	6
225	7.33	42.01	4.8	2.31	1.41	0.6	0.01	0.03	0.13	0.01	36.8	5	38	530	130	6
226	3.12	52.38	2.94	0.34	0.31	0.01	0.01	0.03	0.01	0.01	41.6	5	18	560	70	8
227	8.24	40.46	3.77	2.32	1.73	0.24	0.42	0.03	0.12	0.01	35.7	5	30	460	140	8
228	7.07	40.46	4.44	2.65	2.57	0.84	0.01	0.04	0.18	0.01	35.7	5	35	470	200	6
229	13.7	33.9	3.72	5	3.07	0.89	0.34	0.06	0.22	0.08	29.6	5	24	460	150	10
230	5.81	42.35	4.62	1.65	1.32	0.03	0.57	0.03	0.05	0.01	38.5	5	16	240	50	6
231	11.8	38.98	3.1	2.62	0.55	0.29	0.6	0.03	0.07	0.01	34.2	5	14	220	130	7
232	1.62	51.36	4.72	0.34	0.11	0.02	0.01	0.03	0.01	0.01	42.8	5	18	270	70	8
233	12	45.96	0.33	0.38	0.34	0.01	0.01	0.03	0.01	0.01	36.5	5	14	160	110	8
234	6.08	45.58	2.49	1.76	1.45	0.23	0.28	0.06	0.07	0.01	38.1	5	24	360	60	6
235	7.33	42.14	4.22	1.7	1.31	0.19	0.17	0.03	0.07	0.01	37.6	5	18	450	100	6
236	12.2	36.04	3.16	5	1.99	0.48	0.6	0.04	0.21	0.08	31.8	5	24	450	80	3
237	20	30.76	3.06	5	2.6	0.48	0.65	0.04	0.21	0.1	27.1	5	40	430	190	6
238	11.7	34.92	4.73	5	2.32	0.68	0.49	0.04	0.19	0.1	32.9	5	26	520	180	8
239	11.7	36.49	3.61	5	2.24	0.71	0.4	0.05	0.19	0.07	32.2	5	38	450	190	6
240	2.67	52.19	2.67	0.77	1.04	0.09	0.01	0.05	0.02	0.01	41.5	5	24	690	80	10
241	4.83	44.84	5.13	1.56	0.83	0.3	0.01	0.02	0.06	0.01	40	5	30	440	160	8
242	6.64	41.82	5.38	1.74	0.83	0.24	0.27	0.02	0.06	0.01	38.7	5	26	680	170	7
243	20	26.24	4.04	5	4.89	0.88	0.95	0.05	0.54	0.1	21.8	5	44	370	220	13
244	0.61	56.78	3.07	0.25	0.05	0.01	0.01	0.01	0.01	0.01	43.6	5	24	640	70	9
245	6.17	46.02	3.1	1	0.97	0.01	0.28	0.06	0.04	0.01	39.1	5	14	280	100	12
246	20	24.78	3.19	5	4.07	1	1.58	0.04	0.5	0.11	18.8	5	58	310	230	6
247	4.69	47.33	3.1	1.59	0.96	0.17	0.18	0.02	0.06	0.01	39.8	5	19	630	140	7
248	12.3	39.39	1.21	2.91	0.47	0.01	1.12	0.03	0.05	0.01	34.3	5	17	460	70	6
249	6.67	51.99	1.03	0.19	0.04	0.01	0.01	0.02	0.01	0.01	37.8	5	18	90	120	8
250	4.03	49.95	3.85	0.88	0.53	0.3	0.01	0.02	0.03	0.02	40.9	5	18	400	100	8
251	4.68	49.2	3.25	1.02	0.61	0.12	0.01	0.03	0.04	0.01	40.1	5	18	450	80	8
252	20	25.03	5.11	5	4.2	0.73	1.26	0.06	0.35	0.1	20.9	5	42	410	150	8
253	2.26	53.51	2.99	0.56	0.29	0.07	0.01	0.03	0.01	0.01	42.3	5	16	460	100	8
254	5.82	49.3	2.18	0.59	0.45	0.04	0.01	0.02	0.01	0.01	40.5	5	19	570	80	10
255	1.23	49.12	5.95	0.37	0.76	0.06	0.01	0.05	0.01	0.01	42.6	5	18	280	100	8
256	2.07	52.56	4.41	0.49	0.36	0.04	0.01	0.03	0.01	0.01	42	5	20	440	70	8
257	0.22	53.72	4.5	0.19	0.34	0.01	0.01	0.01	0.01	0.01	43.3	5	14	440	70	7
258	4.53	49.7	1.12	1.43	0.95	0.03	0.43	0.04	0.06	0.01	39.5	5	13	150	70	8
259	2.08	54.6	1.81	0.21	0.55	0.01	0.01	0.03	0.01	0.01	42.4	5	14	200	80	9
260	14.8	33.75	2.68	5	1.91	0.33	1.02	0.04	0.17	0.07	31.6	5	42	290	120	8
261	0.14	60.27	0.32	0.14	0.29	0.01	0.01	0.02	0.01	0.01	43.4	5	14	180	80	11
262	8.36	38.21	3.89	3.18	1.73	0.36	0.67	0.03	0.17	0.09	36.9	5	24	320	130	18
263	3.64	50.33	1.65	1.02	1.11	0.01	0.2	0.07	0.03	0.01	40.3	5	18	420	80	8
264	4.5	47.04	4.36	1.09	0.52	0.15	0.03	0.01	0.06	0.01	40.4	5	18	470	160	8
265	0.58	60.49	0.47	0.38	0.07	0.02	0.01	0.02	0.01	0.01	43.1	5	28	140	80	10
266	5.3	47.57	2.63	1.09	1.02	0.07	0.19	0.04	0.03	0.03	40	5	38	370	70	10
267	20	27.05	4.66	5	2.51	0.74	1.45	0.04	0.26	0.1	26.2	5	20	240	190	14
268	3.92	48.46	2.96	1.08	0.78	0.08	0.18	0.05	0.03	0.01	40.3	5	19	520	100	8
269	14.2	32.5	2.29	4.53	1.22	0.12	2.15	0.03	0.18	0.05	30.7	5	20	360	100	22
270	7.56	40.87	5.26	2.21	0.71	0.18	0.32	0.01	0.11	0.03	37.2	5	58	790	240	18
271	2.45	53.46	2.07	1.07	0.56	0.07	0.01	0.01	0.03	0.03	32.3	5	61	700	120	8
272	20	34.35	3.6	1.95	1.61	0.37	0.04	0.04	0.12	0.04	26.4	5	61	300	190	15
273	9.21	41.18	3.64	2.47	0.82	0.31	0.2	0.01	0.14	0.06	29.9	5	36	660	260	6
274	6.71	43.29	4.68	2.08	0.75	0.43	0.01	0.01	0.12	0.04	35.3	5	32	550	410	13
275	2.24	53.37	2.58	0.78	0.23	0.02	0.04	0.01	0.04	0.01	34.9	5	20	460	120	10

276	9.42	37.95	4.61	5	1.26	0.58	0.51	0.01	0.2	0.09	31.3	5	46	640	390	12
277	5.01	48.39	3.01	1.28	0.73	0.06	0.01	0.02	0.04	0.02	31.4	5	26	730	120	7
278	20	24.02	3.11	5	3.44	0.81	3	0.03	0.47	0.07	9.8	5	50	520	230	6
279	20	27.43	4.75	5	5.56	1.4	0.36	0.04	0.56	0.06	23.8	5	76	280	240	20
280	3.66	42.7	6.74	0.7	1.79	0.01	0.12	0.04	0.02	0.01	39.4	5	20	300	100	6
281	5.3	47.14	3.56	0.87	0.55	0.07	0.07	0.03	0.03	0.01	40.2	11	42	580	200	6
282	8.79	45.22	11.41	1.64	1.28	0.17	0.14	0.04	0.08	0.04	30.6	5	21	470	130	11
283	20	30.42	2.28	5	1.45	1.1	1.03	0.03	0.5	0.26	26.5	5	16	320	320	18
284	2.97	55.67	0.95	0.73	0.23	0.08	0.01	0.02	0.02	0.01	32.7	5	18	130	140	10
285	12.2	36.11	4.38	5	1.57	0.67	0.44	0.03	0.18	0.09	29.8	5	43	550	330	6
286	2.12	53.74	2.58	0.71	0.29	0.02	0.01	0.03	0.02	0.01	34.2	5	26	200	150	10
287	5.88	45.85	4.17	1.09	0.72	0.09	0.02	0.01	0.05	0.06	35.4	5	32	650	170	14
288	5.26	46.14	6	0.91	0.42	0.35	0.01	0.02	0.02	0.01	35.4	5	32	410	310	9
289	2.18	52.38	3.67	0.64	0.24	0.07	0.01	0.02	0.01	0.01	38.4	5	23	480	160	12
290	3.35	32.07	15.08	6.34	1.98	0.01	0.04	0.04	0.02	0.01	43.7	5	24	130	100	11
291	8.34	49.14	0.61	0.65	0.13	0.1	0.01	0.03	0.02	0.01	34.9	5	16	70	170	8
292	5.54	53.63	0.35	0.24	0.1	0.01	0.01	0.04	0.01	0.01	34.3	5	22	270	260	12
293	7.41	52.51	0.43	0.27	0.01	0.06	0.01	0.02	0.01	0.01	36.3	5	14	100	110	8
294	3.79	50.79	3.03	0.81	0.4	0.09	0.01	0.01	0.02	0.01	35.9	5	22	650	140	8
295	3.6	50.34	3.3	1.12	0.51	0.1	0.01	0.04	0.03	0.01	34.1	5	25	680	130	10
296	11.1	37.87	6.22	2.87	1.26	0.59	0.12	0.02	0.13	0.01	29	5	38	350	170	10
297	8.46	48.59	0.44	0.78	0.23	0.01	0.12	0.04	0.02	0.01	31.3	5	15	220	100	9
298	3.53	49.63	3.88	1.08	0.49	0.16	0.05	0.02	0.04	0.01	37.1	5	16	530	160	10
299	9.84	42.87	1.93	1.09	0.32	0.01	0.34	0.06	0.05	0.01	28.5	5	16	210	150	9
300A	4.95	28.07	20.92	0.28	0.47	0.04	0.01	0.07	0.01	0.01	40.7	5	16	60	60	7
300B	1.53	29.62	19.95	0.42	0.49	0.09	0.01	0.07	0.01	0.01	43.7	5	14	50	50	6
301	20	24.04	23.68	1.09	1.79	0.16	0.01	0.1	0.09	0.01	14	5	21	60	60	8
302	8.97	27.73	20.61	0.3	0.42	0.01	0.01	0.03	0.01	0.01	36.9	5	18	70	50	12
303	12.3	26.09	18.62	3.15	1.5	0.97	0.01	0.05	0.17	0.01	34.4	5	27	80	190	8
304	3.06	49.71	4.58	0.57	0.12	0.36	0.01	0.02	0.03	0.01	38	5	24	1620	60	10
305	5.62	27.59	14.27	1.31	0.7	0.32	0.01	0.03	0.07	0.01	36.8	5	19	110	170	9
306	0.01	29.69	20.65	0.12	0.34	0.01	0.01	0.05	0.01	0.01	42.6	5	27	80	70	7
307	3.63	28.1	19.61	1.17	0.52	0.12	0.09	0.03	0.05	0.01	40.2	5	18	110	80	3
308	0.63	29.8	20.33	0.09	0.43	0.01	0.01	0.04	0.01	0.01	46.4	5	31	80	50	3
309	20	25.21	18.31	0.46	0.88	0.06	0.01	0.08	0.02	0.01	23.2	5	28	120	60	10
310	20	26	19.78	0.45	0.61	0.11	0.01	0.04	0.03	0.01	24.6	5	18	110	60	3
311	1.05	46.68	7.36	0.46	0.31	0.04	0.01	0.05	0.02	0.01	41.9	5	18	280	120	8
312	1.69	52.11	5.03	0.49	0.23	0.31	0.01	0.02	0.02	0.01	39	5	19	920	160	12
313	0.63	55.01	3.87	0.29	0.07	0.14	0.01	0.02	0.01	0.01	38.4	5	12	580	90	6
314	2.14	40.32	16.49	0.44	0.41	0.01	0.01	0.11	0.05	0.01	37.7	5	32	110	60	6
315	3.37	28.31	19.37	1.39	1.41	0.74	0.01	0.07	0.14	0.01	40.3	5	58	210	340	6
316	3.68	47.79	6.66	0.57	0.39	0.17	0.01	0.05	0.03	0.01	37.2	5	36	190	150	6
317	2.42	28.71	20.24	0.48	0.87	0.1	0.01	0.06	0.01	0.01	44.6	5	295	190	130	13
318	5.17	28.9	20.23	0.35	0.47	0.05	0.01	0.04	0.02	0.01	37.5	5	15	80	70	6
319	20	25.16	19.81	0.21	0.52	0.01	0.01	0.03	0.01	0.01	17.2	5	22	60	60	3
320	12.4	35.75	7.5	3.66	10	1.06	0.34	0.04	0.11	0.01	29.1	5	36	210	140	3
321	20	16.81	3.21	5	10	1.35	3	0.06	0.52	0.12	9.1	5	50	230	240	38
322	3.79	51.8	2.81	0.84	0.33	0.22	0.01	0.04	0.04	0.01	41.3	5	14	180	120	6
323	7.46	50.77	0.58	0.39	0.38	0.03	0.01	0.03	0.01	0.01	37.5	5	15	100	540	3
324	5.68	46.01	3.65	1.83	0.42	0.44	0.19	0.02	0.08	0.01	39.5	5	24	370	130	8
325	12.7	34.92	3.73	5	1.43	0.65	0.63	0.03	0.19	0.06	32.7	5	32	470	210	9
326	20	25.04	3.74	5	3.5	1.14	1.58	0.06	0.45	0.11	19.2	5	60	300	220	8
327	3.51	54.14	1.23	0.79	0.28	0.12	0.01	0.02	0.02	0.01	41.1	5	16	190	90	3
328	3.33	49.54	4.26	0.71	0.28	0.33	0.01	0.03	0.02	0.01	41.3	5	22	630	150	8
329	7.22	42.13	6.22	1.38	1.22	0.13	0.05	0.05	0.05	0.01	37.4	5	32	280	90	8
330	4.72	45.86	4.17	1.2	0.43	0.28	0.06	0.03	0.04	0.01	40.2	5	24	660	240	8

331	8.31	42.62	4.64	1.46	0.86	0.29	0.01	0.01	0.06	0.01	37.4	5	62	630	170	21
332	1.93	51.93	3.55	0.5	0.38	0.07	0.01	0.01	0.01	0.01	41.8	5	22	630	170	8
333	14	35.99	4.42	5	1.35	0.52	0.32	0.03	0.18	0.01	30.9	5	42	650	300	16
334	15.7	31.88	4.09	5	2.41	1.06	0.33	0.02	0.28	0.01	28.5	5	48	520	240	3
335	1.88	52.01	3.03	0.62	0.74	0.01	0.02	0.03	0.02	0.01	41.4	5	20	830	110	7
336	5.81	43.62	5.22	1.6	0.64	0.26	0.41	0.03	0.06	0.01	39.4	5	22	300	110	10
337	4.23	45.41	5.1	1.02	0.84	0.04	0.23	0.02	0.05	0.01	40.5	5	28	680	120	6
338	20	27.69	5.41	5	1.89	0.13	1.59	0.04	0.32	0.08	22.3	5	24	220	90	3
339	1.93	55.27	1.63	0.79	0.46	0.17	0.01	0.04	0.02	0.01	41.1	5	14	140	120	3
340	3.76	49.94	2.52	0.74	0.37	0.42	0.01	0.01	0.03	0.01	38.8	5	20	3150	530	3
341	2.32	52.97	2.22	0.64	0.89	0.22	0.01	0.05	0.02	0.01	40.9	5	24	460	90	19
342	1.49	48.49	5.98	0.28	0.9	0.02	0.01	0.04	0.01	0.01	42.4	20	78	250	90	8
343	15.3	34.12	3.1	5	3.13	0.76	0.13	0.09	0.22	0.11	27.9	5	44	330	210	14
344	3.83	31.73	14.41	0.17	0.14	0.01	0.01	0.06	0.02	0.01	40.7	5	50	440	3000	7
345	2.16	29.65	19.13	0.37	0.57	0.03	0.01	0.24	0.01	0.01	46.2	5	25	70	120	51
346	0.03	51.93	5.39	0.16	10	0.01	0.01	0.01	0.01	0.01	43.1	5	16	460	160	6
347	0.43	54.15	4.32	0.21	0.02	0.03	0.01	0.01	0.01	0.01	42.7	5	64	340	140	11
348	2.36	55.98	1.26	0.59	0.35	0.01	0.01	0.03	0.01	0.01	40.5	5	16	150	80	10
349	3.69	48.04	4.56	0.84	0.65	0.05	0.04	0.02	0.05	0.01	39.2	5	40	740	140	8
350	4	47.98	4.57	1.09	0.98	0.27	0.01	0.02	0.06	0.01	37.4	5	40	820	370	8
351	11.9	38.37	2.21	5	2.05	0.63	0.48	0.06	0.14	0.07	27.7	5	48	450	250	7
352	0.18	61.36	0.51	0.13	0.01	0.01	0.01	0.01	0.01	0.01	44.7	5	19	150	70	9
353	7.95	40.03	5.56	2.21	1.23	0.4	0.31	0.02	0.11	0.01	35.7	5	42	710	390	15
354	7.66	41.92	4.79	2.21	1.39	0.26	0.33	0.02	0.1	0.01	35.2	5	44	800	270	28
355	0.28	29.64	20.09	0.16	0.5	0.01	0.01	0.08	0.01	0.01	47.8	5	38	60	60	8
356	0.36	54.79	3.18	0.17	0.1	0.01	0.01	0.02	0.01	0.01	43.2	5	18	450	110	8
357	4.71	48.47	3.36	1.59	0.35	0.54	0.01	0.02	0.1	0.01	39.6	5	13	140	110	10
358	5.41	27.55	19.43	1.2	0.85	0.02	0.07	0.08	0.08	0.01	43.4	5	18	120	60	8
359	1.51	30.4	19.79	0.28	0.27	0.01	0.01	0.04	0.01	0.01	46	5	24	110	60	7
360	20	28.19	3.2	2.85	0.91	0.99	0.01	0.03	0.13	0.07	24.1	220	600	1250	150	21
361	7.01	43.65	7.98	0.35	0.18	0.1	0.01	0.1	0.01	0.16	35.9	5	16	130	120	10
362	11.6	35.84	5.15	5	1.31	2	0.01	0.05	0.19	0.08	31.3	5	16	290	150	11
363	6.79	45.91	1.28	2.63	0.52	0.62	0.32	0.02	0.17	0.01	36.8	5	24	1350	100	16
364	3.89	50.4	1.36	1.36	0.6	0.8	0.01	0.02	0.08	0.01	39.9	5	24	1300	170	13
365	4.12	47.3	5.6	0.75	0.42	0.29	0.01	0.02	0.05	0.01	41	5	13	330	80	11
366	0.15	29.88	20.67	0.18	0.35	0.01	0.01	0.04	0.01	0.01	46.8	5	13	50	50	8
367	0.5	55.98	3.75	0.26	0.07	0.01	0.01	0.01	0.01	0.01	43.3	5	11	620	120	10
368	5.73	51.96	0.22	0.97	0.13	0.02	0.27	0.02	0.03	0.01	38.1	5	9	1190	80	8
369	4.08	34.55	13.46	1.27	1.17	0.1	0.17	0.04	0.06	0.01	42.3	5	46	160	70	8
370	6.66	44.73	4.79	1.01	0.64	0.17	0.21	0.05	0.03	0.01	39.4	5	18	410	120	12
371	9.89	40.72	3.41	2.81	1.49	0.32	0.4	0.03	0.14	0.06	33.8	5	40	610	360	14
372	10.5	38.34	4.07	2.77	2.41	0.4	0.32	0.04	0.16	0.01	32.9	5	46	660	230	7
373	14.6	33.26	5.11	5	2.19	0.76	0.65	0.04	0.24	0.07	31.1	5	36	630	190	25
374	20	27.91	3.82	5	3.57	1.05	0.98	0.05	0.41	0.17	24.2	5	29	430	260	28
375	11.1	37.84	5.03	3.28	1.95	1	0.01	0.03	0.17	0.01	33.9	5	38	820	500	24
376	1.99	43.39	8.45	0.54	1.53	0.08	0.01	0.06	0.02	0.01	43.7	5	24	310	100	9
377	10.7	38.16	3.29	3.23	0.84	0.3	1.1	0.04	0.12	0.01	31.4	5	21	840	240	9
378	1.73	52.99	3.84	0.34	0.57	0.01	0.07	0.04	0.01	0.01	41.7	5	12	340	80	12
379	15.1	33.61	4.43	5	2.17	0.37	0.79	0.04	0.2	0.08	28.7	5	38	520	150	7
380	1.85	56.72	0.49	0.68	0.21	0.13	0.01	0.05	0.01	0.01	42	5	12	800	180	9
381	20	27.31	2.7	5	3.51	0.42	1.07	0.09	0.32	0.14	21.4	5	42	420	180	20
382	12.8	37.01	3.64	3.4	1.54	0.39	0.68	0.04	0.15	0.01	31.1	5	30	620	230	14
383	20	32.59	2.89	5	2.35	0.64	0.49	0.03	0.26	0.06	27	5	45	580	150	7
384	20	14.27	4.7	5	7.24	1.24	3	0.06	0.81	0.16	4.4	5	84	320	460	61
385	20	24.04	3.69	5	5.44	0.64	3	0.08	0.42	0.25	9.9	5	78	240	230	34
386	14.2	33.58	2.07	5	2.52	0.61	0.69	0.08	0.23	0.08	30.6	5	34	470	180	9

387	20	26.33	4.36	5	4.15	0.66	1.3	0.06	0.44	0.13	20.7	5	56	470	260	10
388	20	27.16	2.96	5	4.15	0.5	1.58	0.07	0.34	0.21	16.8	5	60	540	100	26
389	20	30.35	5.06	5	4.3	1.28	0.47	0.06	0.33	0.1	28.8	5	52	510	250	8
390	10.5	42.08	1.51	2.22	1.62	0.16	0.33	0.09	0.07	0.01	37.1	5	24	540	80	7
391	20	20.49	3.73	5	5.83	0.62	3	0.08	0.59	0.21	10.5	5	57	390	270	51
392	15	35.15	4.25	3.53	2.25	0.83	0.45	0.04	0.2	0.01	31.4	5	48	570	270	6
393	9.25	41.13	5.71	2.41	1.52	0.43	0.18	0.02	0.12	0.01	34.5	5	42	650	180	6
394	13	37.26	3.09	3.45	2.35	0.43	0.41	0.06	0.19	0.09	31.6	5	33	590	200	7
395	11.7	40.75	2.1	2.59	0.63	0.05	0.97	0.08	0.07	0.13	35.9	5	17	410	140	18
396	11.6	46.77	0.6	0.21	0.14	0.01	0.01	0.02	0.01	0.02	29.3	5	32	430	5280	9
397	15.6	32.51	2.93	5	3.45	0.48	0.75	0.09	0.25	0.13	26.1	5	42	540	210	10
398	20	14.88	4.62	5	10	0.06	3	0.15	0.57	0.21	5.2	5	136	240	80	8
399	6.76	46.12	3.31	1.81	1.07	0.14	0.01	0.05	0.07	0.01	37.7	5	37	620	90	8
400	1.99	55.54	1.67	0.56	0.21	0.2	0.01	0.01	0.02	0.01	42.2	5	15	2150	120	9
401	0.01	58.98	2.1	0.13	0.01	0.01	0.01	0.01	0.01	0.01	43.5	5	40	940	80	9
402	2.73	28.87	20.3	0.08	1.12	0.01	0.01	0.06	0.01	0.01	45.2	5	24	120	50	6
403	20	16.17	10.35	5	3.42	2	0.45	0.69	0.33	0.17	4.6	230	335	140	1520	220
404	2.02	28.97	20	0.93	0.85	0.27	0.01	0.05	0.05	0.01	45.1	5	20	70	320	6
405	1.08	31.18	18.25	0.48	0.67	0.11	0.01	0.06	0.01	0.01	45.3	5	21	60	90	6
406	20	30.72	2.17	5	2.95	0.01	1.17	0.12	0.18	0.12	26.8	5	36	500	80	25
407	20	26.5	6.03	5	3.47	1.05	1.37	0.03	0.35	0.14	21.4	5	62	500	250	33
408	20	32.35	2.82	5	2.8	0.58	0.63	0.11	0.31	0.08	27.4	5	38	610	150	10
409	20	1.66	1.46	5	4.75	2	0.01	0.01	0.66	0.36	0.6	5	13	200	11100	3
410	12.8	27.61	19.52	0.24	1.68	0.01	0.01	0.07	0.01	0.01	40	5	42	110	50	3
411	9.12	46.8	4.2	0.4	0.21	0.11	0.01	0.02	0.01	0.01	36.3	5	20	180	330	6
412	20	24.84	10.88	5	3.5	1.27	1.08	0.1	0.61	0.14	14.9	16	54	110	250	2040
413	9	42.49	4.34	1.6	1.42	0.01	0.23	0.08	0.1	0.01	33.7	14	30	840	70	19
414	7.45	46.74	2.99	1.15	0.72	0.34	0.01	0.09	0.05	0.01	38.3	5	29	280	120	18
415	1.75	57.33	0.43	0.49	0.21	0.04	0.01	0.01	0.02	0.01	42.1	5	28	2290	780	9
416	1.72	29.3	20.2	0.07	0.5	0.01	0.01	0.07	0.01	0.01	46.7	5	30	90	30	11
417	2.86	29.83	20.63	0.4	0.3	0.14	0.01	0.06	0.02	0.01	43.8	5	18	150	140	6
418	7.96	52.42	0.41	0.26	0.02	0.07	0.01	0.04	0.01	0.01	42.7	5	12	200	800	9
419	0.19	29.84	20.76	0.09	0.53	0.01	0.01	0.07	0.01	0.01	47	64	16	60	40	6
420	0.96	29.74	20.08	0.32	0.81	0.07	0.01	0.1	0.01	0.01	46.4	5	20	100	100	7
421	9.11	43	2.48	2.12	1.95	0.22	0.13	0.06	0.1	0.01	35.1	5	38	660	100	10
422	1.37	45.82	8.11	0.46	0.94	0.1	0.01	0.07	0.01	0.01	43.1	5	16	100	80	10
423	1.95	55.64	3.41	0.68	0.01	0.38	0.01	0.01	0.02	0.01	42.1	5	16	140	100	9
424	0.33	58.53	2.58	0.09	0.08	0.01	0.01	0.02	0.01	0.01	43.1	5	220	170	100	8
425	9.59	50.98	1.37	0.05	0.01	0.01	0.01	0.02	0.01	0.01	31.5	5	35	160	270	8
426	0.01	61.29	1.06	0.07	0.01	0.01	0.01	0.01	0.01	0.01	43.3	5	14	860	100	8
427	0.43	59.11	2.07	0.15	0.01	0.02	0.01	0.02	0.01	0.01	43.1	33	148	180	80	8
428	20	18.54	22.06	2.84	2.92	1.25	0.01	0.1	0.26	0.01	7.6	5	190	390	100	6
429	3.07	29.09	19.94	0.73	0.48	0.31	0.01	0.08	0.05	0.07	43.5	5	460	200	230	10
430	0.99	29.24	20.86	0.36	0.43	0.01	0.01	0.06	0.01	0.01	26.4	5	22	80	70	8
431	1.63	29.22	20.95	0.38	0.37	0.01	0.01	0.05	0.02	0.01	45.6	5	62	140	350	8
432	1.51	30.11	19.59	0.36	0.71	0.01	0.01	0.29	0.01	0.38	47.7	5	34	200	170	6
433	4.23	28.17	21.43	0.83	0.86	0.05	0.01	0.07	0.06	0.01	42.6	5	34	80	620	6
434	3.33	42.87	9.53	0.3	0.2	0.08	0.01	0.02	0.01	0.01	42.3	5	16	320	100	6
435	4.35	29.03	20.41	0.1	0.61	0.01	0.01	0.05	0.01	0.01	42.6	5	14	170	40	7
436	5.3	28.24	21.69	0.14	0.1	0.02	0.01	0.03	0.01	0.01	41.4	5	14	290	90	3
437	1.81	29.45	20.76	0.17	0.3	0.01	0.01	0.05	0.01	0.01	44.9	5	18	180	40	3
438	2.67	28.59	20.49	0.6	0.52	0.01	0.01	0.05	0.02	0.01	46	20	64	30	40	7
439	0.39	29.95	20.9	0.14	0.19	0.01	0.01	0.05	0.01	0.01	46.3	113	75	90	30	6
440	4.74	51.82	2.62	1.32	0.63	0.42	0.01	0.02	0.03	0.01	39.3	5	22	500	80	10
441	2.98	29.23	20.98	0.25	0.31	0.01	0.01	0.04	0.01	0.01	44.8	5	32	130	20	6
442	6.34	27.76	20.93	0.44	0.83	0.01	0.01	0.06	0.03	0.01	39.7	5	38	50	60	8

443	5.14	28.29	18.67	1.32	1.26	0.5	0.01	0.19	0.09	0.01	44.4	5	35	60	100	7
444	10.7	28.53	20.42	0.34	0.33	0.02	0.01	0.04	0.01	0.01	35.8	5	24	130	70	3
445	8.7	27.68	20.67	0.09	0.86	0.01	0.01	0.09	0.01	0.01	35.7	5	26	50	40	3
446	9.46	42.73	5.04	2.2	1.42	0.02	0.15	0.04	0.06	0.08	38.1	5	17	160	50	14
447	20	16.57	6.36	5	2.11	2	1.17	0.02	0.5	0.01	8.9	5	30	110	230	16
448	4.22	27.92	21.28	1.3	0.27	0.41	0.01	0.04	0.12	0.19	43.2	5	20	50	90	6
449	14.3	32.33	15.51	0.45	0.5	0.01	0.01	0.06	0.02	0.01	31.9	5	18	180	40	6
450	2.73	52.24	4.65	0.29	0.14	0.02	0.01	0.01	0.01	0.01	42.1	5	20	220	50	8
451	20	12.39	24.43	2.2	1.16	0.97	0.01	0.03	0.18	0.01	1.9	5	40	330	80	3
452	20	26.03	18.22	0.95	0.73	0.2	0.01	0.05	0.08	0.01	21	5	41	450	50	3
453	11.4	28.41	19.46	0.24	0.31	0.01	0.01	0.04	0.01	0.16	33.9	15	50	820	40	6
454	2.13	29.9	21.16	0.06	0.6	0.01	0.01	0.07	0.01	0.01	45.2	5	24	100	40	3
455	0.57	29.7	20.73	0.1	0.49	0.01	0.01	0.08	0.01	0.01	46	5	18	70	30	3
456	1.47	29.5	20.99	0.09	0.55	0.01	0.01	0.07	0.01	0.01	45.8	5	20	90	30	3
457	20	26.21	20.86	0.18	0.55	0.01	0.01	0.07	0.01	0.01	27.3	5	24	90	40	6
458	9.77	27.71	20.25	0.19	0.3	0.01	0.01	0.04	0.01	0.01	33.9	5	15	100	40	6
459	20	19.25	24.31	0.13	0.51	0.01	0.01	0.05	0.01	0.01	1.2	5	49	40	20	3
460	1.39	29.33	20.93	0.23	0.21	0.01	0.01	0.07	0.01	0.01	44.9	5	37	90	30	3
461	20	24.03	18.36	0.23	1.72	0.01	0.01	0.09	0.01	0.01	1.1	5	50	20	20	3
462	3.65	29.74	19.69	0.93	1.37	0.03	0.01	0.09	0.08	0.01	42.6	17	40	180	210	3
463	8.34	27.97	20.07	0.06	1.4	0.01	0.01	0.07	0.01	0.01	35.7	5	26	220	30	3
464	20	19.01	23.06	0.38	1.83	0.01	0.04	0.04	0.02	0.01	2.3	5	38	30	20	3
465	1.33	54.12	4.62	0.3	0.04	0.01	0.01	0.01	0.01	0.01	42.9	5	15	440	70	8
466	1.46	29.37	20.63	0.47	0.42	0.11	0.01	0.06	0.02	0.01	46.2	5	16	40	40	10
467	2.26	28.79	19.98	0.7	1.45	0.38	0.01	0.07	0.04	0.01	44	5	12	60	60	6
468	6.61	27.79	21.77	0.35	0.33	0.01	0.01	0.04	0.02	0.01	43.3	5	19	80	60	3
469	2.56	52.98	4.04	0.54	0.44	0.18	0.01	0.06	0.02	0.01	42.7	5	32	270	120	10
470	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	43.2	5	16	440	140	8
471	2.42	39.35	13.28	0.41	0.58	0.23	0.01	0.05	0.01	0.01	42.8	5	18	120	90	6
472	1.68	52.62	5.11	0.43	0.08	0.16	0.01	0.01	0.01	0.01	42.5	5	20	320	170	8
473	20	24.05	9.62	5	1.61	2	3	0.06	0.04	0.24	6.4	5	52	40	610	6
474	0.44	49.2	8.3	0.19	0.01	0.02	0.01	0.01	0.01	0.01	43.3	5	14	170	110	8
475	2.22	51.58	4.55	0.53	0.32	0.18	0.01	0.02	0.01	0.01	41.9	5	20	440	150	6
476	2.94	51.04	4.25	0.52	0.4	0.19	0.01	0.04	0.02	0.01	40.8	5	21	570	200	9
477	2.45	53.84	3.13	0.4	0.31	0.01	0.01	0.05	0.01	0.01	41	5	16	510	110	11
478	0.98	29.73	20.45	0.37	0.7	0.06	0.01	0.1	0.01	0.01	52.3	5	11	70	70	7
479	1.66	53.02	4.28	0.36	0.14	0.05	0.01	0.02	0.01	0.01	41.6	5	16	420	180	8
480	0.01	56.31	3.7	0.41	0.01	0.01	0.01	0.01	0.01	0.01	43	5	12	310	100	8
481	1.04	53.05	5.19	0.24	0.05	0.07	0.01	0.01	0.01	0.01	43.3	5	12	230	200	7
482	2.42	50.68	4.83	0.44	1.14	0.13	0.01	0.06	0.01	0.01	41	5	26	500	150	8
483	0.35	54.73	4.55	0.2	0.19	0.01	0.01	0.02	0.01	0.01	43.9	5	17	270	110	8
484	0.01	52.12	5.52	0.14	0.04	0.02	0.01	0.01	0.01	0.01	43.1	5	16	210	120	7
485	0.01	53.7	4.78	0.1	0.04	0.01	0.01	0.01	0.01	0.01	43.6	5	59	210	100	8
486	0.63	49.26	7.47	0.19	0.02	0.07	0.01	0.03	0.01	0.01	47.6	5	18	90	100	8
487	0.01	53.03	5.9	0.07	0.01	0.01	0.01	0.01	0.01	0.01	43	5	14	140	200	6
488	0.07	51.59	4.8	0.24	0.02	0.01	0.01	0.02	0.01	0.01	42.2	5	12	160	180	7
489	0.47	54.94	4.34	0.21	0.11	0.06	0.01	0.01	0.01	0.01	42.5	5	14	210	240	6
490	0.65	29.71	20.97	0.25	0.3	0.03	0.01	0.03	0.01	0.01	46	5	14	30	110	3
491	20	26	19.8	0.28	0.29	0.01	0.01	0.03	0.02	0.01	23.4	5	14	20	110	3
492	3.64	28.4	20.45	0.98	0.41	0.09	0.01	0.04	0.09	0.01	45.1	5	12	30	130	6
493	9.19	30.32	20.27	0.19	1.25	0.04	0.01	0.06	0.02	0.01	36	5	37	70	140	3
494	0.48	30.02	20.67	0.16	0.4	0.02	0.01	0.04	0.01	0.01	46.8	5	18	30	140	3
495	11	42.19	4.87	1.36	1.03	0.51	0.01	0.03	0.08	0.17	35.1	5	14	150	260	18
496	0.97	55.28	3.51	0.29	0.27	0.11	0.01	0.03	0.01	0.01	42	5	20	230	260	8
497	0.09	54.53	4.95	0.15	0.02	0.01	0.01	0.01	0.01	0.01	40.4	5	14	210	210	7
498	0.14	54.46	4.24	0.14	0.32	0.01	0.01	0.02	0.01	0.01	43.6	5	13	290	210	14

499	0.37	54.4	4.57	0.15	0.06	0.01	0.01	0.01	0.01	0.01	43.1	5	14	320	220	7
500	0.49	52.33	5.18	0.24	0.09	0.07	0.01	0.01	0.01	0.01	42.8	5	14	350	250	6
501	20	25.51	18.78	0.59	0.6	0.01	0.01	0.03	0.02	0.01	20.4	5	15	40	90	3
502	2.69	30.48	18.92	0.32	0.58	0.02	0.01	0.04	0.02	0.01	43.6	5	18	90	140	3
503	20	29.3	1.81	2.35	0.6	0.87	0.01	0.03	0.11	0.06	26.4	44	240	1150	200	24
504	0.28	51.89	5.92	0.09	0.01	0.01	0.01	0.01	0.01	0.01	44.2	5	20	430	210	10
505	2.44	30.6	18.43	1.32	0.53	0.08	0.01	0.13	0.04	0.01	45	5	26	70	110	10
506	5.58	31.76	16.74	1.62	0.65	0.28	0.01	0.04	0.06	0.01	42.5	68	230	80	130	88
507	3.56	34.71	14.97	0.86	0.67	0.01	0.01	0.17	0.03	0.01	43	5	99	90	40	16
508	4.92	26.67	20.9	1.63	1.11	0.67	0.01	0.06	0.1	0.01	41.8	10	50	220	200	7
509	20	27.42	6.61	5	2.84	2	0.01	0.03	0.51	0.16	25.5	5	37	20	5	3
510	4.57	51.43	0.54	1.74	0.45	0.16	0.15	0.03	0.06	0.01	40.6	15	66	1440	230	10
511	2.83	53.76	0.7	1.03	0.52	0.19	0.01	0.01	0.05	0.01	40.3	5	22	2200	760	12
512	20	27.59	5.68	5	3.01	1.4	0.38	0.05	0.32	0.11	23.3	14	60	540	1120	25
513	1.03	51.69	6.07	0.27	0.07	0.01	0.01	0.02	0.01	0.01	42.7	5	15	100	70	8
514	20	14.94	18.74	5	2.59	2	0.03	0.07	0.38	0.01	18	5	141	190	330	14
515	12.7	26.48	17.87	1.16	0.95	0.26	0.01	0.06	0.04	0.01	43.6	5	35	260	130	8
516	0.87	56.54	3.7	0.12	0.01	0.01	0.01	0.02	0.01	0.01	45.8	5	11	120	70	8
517	7.8	47.98	1.3	1.11	0.17	0.52	0.01	0.02	0.03	0.01	37.5	5	50	1630	640	12
518	5.03	33.03	13.29	2.08	1.06	0.42	0.01	0.17	0.07	0.01	41.5	5	17	160	980	13
519	1.73	29.39	20.46	0.18	0.58	0.01	0.01	0.05	0.01	0.01	45.4	5	27	30	50	7
520	20	19.59	7.95	5	2.59	2	1.37	0.04	0.56	0.22	12.5	17	66	250	550	18
521	1.83	56.95	0.86	0.39	0.27	0.01	0.01	0.07	0.01	0.01	42.3	5	20	350	90	8
522	13.9	29.57	10.28	5	1.84	1.06	0.01	0.05	0.25	0.06	33.3	5	42	190	1580	14
523	12.5	37.08	4.46	3.77	0.96	0.74	0.04	0.08	0.11	0.01	34.3	5	44	480	150	8
524	4.65	46.91	3.32	1.36	1.43	0.29	0.07	0.06	0.11	0.06	39.1	5	41	210	230	6
525	5.6	50.28	2.15	0.44	0.39	0.01	0.01	0.02	0.01	0.01	40.4	5	66	360	90	10
526	12	40.5	0.64	2.55	0.54	0.09	0.89	0.08	0.05	0.01	33.3	5	14	420	90	7
527	10	27.48	18.98	0.08	0.39	0.01	0.01	0.04	0.01	0.01	41	5	23	60	40	6
528A	1.27	58.39	1.41	0.09	0.02	0.01	0.01	0.02	0.01	0.01	20.4	5	14	120	90	9
528B	1.36	29.39	20.63	0.08	0.45	0.01	0.01	0.06	0.01	0.01	45.5	5	22	30	50	6
528C	20	24.4	20.96	0.29	5.09	0.01	0.01	0.08	0.02	0.01	40.8	14	830	70	50	310
529	3.13	55.94	0.92	0.56	0.2	0.07	0.01	0.05	0.02	0.01	41.4	5	11	390	110	8
530	5.27	51.61	0.63	1.24	0.45	0.22	0.01	0.01	0.04	0.01	40.5	5	22	2180	480	10
531	6.91	44.95	3.26	1.92	0.49	0.22	0.28	0.21	0.04	0.01	38.5	5	25	350	160	9
532	4.8	49.77	1.52	1.01	1.29	0.05	0.01	0.04	0.04	0.01	39.2	5	16	390	110	8
533	4.04	48.72	4.41	0.84	0.57	0.09	0.01	0.03	0.01	0.01	41	5	18	400	90	8
534	20	30.28	1.64	5	1.64	0.07	1.83	0.07	0.15	0.06	25.8	5	26	350	90	17
535	4.93	44.92	5.49	1.23	0.57	0.1	0.14	0.02	0.03	0.01	41.1	11	26	320	160	20
536	9.58	41.73	2.86	1.97	1.5	0.1	0.01	0.04	0.1	0.01	35	5	44	370	160	6
537	4.83	50.41	0.82	1.29	0.35	0.28	0.01	0.02	0.05	0.01	40.9	5	36	2390	260	8
538	2.22	54.64	0.35	1.17	0.34	0.2	0.01	0.02	0.07	0.01	42.6	5	28	1750	340	10
539	1.54	29.43	20.6	0.64	0.5	0.04	0.01	0.03	0.03	0.01	45.7	5	20	40	70	7
540	0.64	29.96	20.31	0.31	0.46	0.02	0.01	0.05	0.01	0.01	46.4	5	22	40	70	3
541	11.6	40.49	1.2	5	0.63	0.62	0.13	0.07	0.13	0.01	34.8	5	50	110	240	9
542	2.85	29.02	20.33	0.29	0.49	0.03	0.01	0.05	0.01	0.01	44.8	5	22	40	90	6
543	2.96	28.35	19.82	1.63	0.69	0.33	0.01	0.39	0.09	0.01	44.3	5	22	60	1040	8
544	1.37	29.65	20.31	0.35	0.43	0.1	0.01	0.05	0.01	0.01	46.3	5	12	90	100	7
545	11.6	39.51	9.15	0.2	0.49	0.01	0.01	0.03	0.01	0.01	33.9	5	34	120	160	6
546	20	24.13	1.87	5	1.79	1.79	0.63	0.07	0.27	0.09	13.4	11	31	290	350	9
547	1.69	36.44	13.93	0.27	0.75	0.01	0.01	0.16	0.01	0.01	45	5	17	70	150	6
548	1.53	58.62	1.73	0.45	0.06	0.1	0.01	0.01	0.01	0.01	42.7	5	17	90	230	9
549	7.43	39.95	11.69	2.94	0.46	0.01	0.01	0.04	0.07	0.01	38.5	5	43	100	210	6
550	4.53	29.13	19.45	0.35	0.94	0.01	0.01	0.12	0.01	0.01	44.1	5	22	50	130	13
551	1.25	29.45	20.81	0.04	0.26	0.01	0.01	0.05	0.01	0.01	45.6	19	24	100	130	6
552	1.93	29.2	20.11	0.13	0.75	0.01	0.01	0.07	0.01	0.01	43.4	5	20	230	140	6

553	2.53	48.14	4.73	0.39	0.85	0.18	0.01	0.06	0.02	0.01	40.8	5	21	250	270	10
554	6.02	28.45	20.02	0.23	1.24	0.01	0.01	0.07	0.01	0.01	39.5	5	20	160	140	6
555	2.37	50.57	4.21	0.34	0.26	0.13	0.01	0.03	0.02	0.01	39.9	5	23	310	290	7
556	13.1	44.54	2.95	1.13	0.64	0.07	0.01	0.02	0.02	0.01	34.4	5	15	110	780	8
557	13.2	45.51	3.85	0.32	0.58	0.01	0.01	0.05	0.01	0.01	35.6	5	22	440	570	7
558	6.56	52.64	1.34	0.32	0.07	0.01	0.01	0.03	0.01	0.01	38.7	5	14	180	1140	8
559	1.18	52.67	4.65	0.27	0.28	0.08	0.01	0.03	0.01	0.01	42.3	5	18	560	350	6
560	5.18	48.02	3.97	1	0.83	0.09	0.01	0.04	0.04	0.06	36.7	5	24	310	270	10
561	3.37	28.33	22.03	0.2	0.18	0.01	0.01	0.04	0.01	0.01	46.9	5	72	130	140	6
562	2.76	28.83	21.95	0.34	0.29	0.01	0.01	0.07	0.01	0.01	48.8	5	11	180	130	8
563	3.46	43.06	9.99	0.48	0.35	0.14	0.01	0.02	0.04	0.01	42.7	5	11	1340	390	8
564	2.52	57.86	1.95	0.14	0.01	0.01	0.01	0.03	0.01	0.01	40.3	5	24	100	230	9
565	3.28	29.03	20.83	0.18	0.11	0.01	0.01	0.09	0.01	0.01	44.6	5	10	50	70	6
566	0.39	57.03	1.83	0.27	0.07	0.01	0.01	0.01	0.01	0.01	43.1	5	36	330	140	14
567	5.3	45.5	4.15	1.61	0.97	0.3	0.22	0.03	0.11	0.02	39.4	5	16	360	200	8
568	5.37	48.26	1.77	1.31	1.55	0.14	0.14	0.05	0.07	0.01	39.1	5	20	590	180	10
569	14	31.17	5.59	5	4.23	1.14	0.19	0.03	0.45	0.09	29.3	5	56	430	620	24
570	11	37.48	2.57	5	2.48	0.54	0.24	0.04	0.24	0.01	33.3	5	36	480	250	14
571	20	27.07	4.11	5	4.05	1.01	1.22	0.05	0.45	0.15	22.6	5	49	340	490	14
572	12.8	34.38	3.89	5	2.37	0.16	0.87	0.02	0.27	0.08	30.3	5	66	450	170	34
573	0.36	29.52	20.04	0.27	0.7	0.03	0.01	0.04	0.01	0.01	47	5	14	40	70	6
574	1.53	43.94	8.96	0.76	0.56	0.12	0.04	0.02	0.02	0.01	43.1	5	46	320	180	7
575	8.88	28.02	16.98	0.6	0.97	0.1	0.01	0.11	0.02	0.01	42.3	5	50	40	90	6
576	8	44.52	2.04	1.94	1.06	0.14	0.05	0.03	0.06	0.01	37.1	5	20	380	170	6
577	12.2	33.82	4.6	5	3.25	0.49	0.35	0.03	0.44	0.11	30.2	5	44	460	180	6
578	20	25.31	4.02	5	2.97	1.21	0.86	0.08	0.32	0.08	17.3	5	38	280	550	8
579	20	12.07	4.66	5	4.86	1.29	1.84	0.03	0.47	0.16	4.6	5	78	220	430	22
580	10.6	39.54	1.99	5	1.09	0.4	0.55	0.05	0.12	0.01	33.3	5	21	510	340	8
581	0.67	52.7	5.54	0.23	0.04	0.02	0.01	0.02	0.01	0.01	42.8	5	11	120	160	7
582	0.68	29.37	20.65	0.16	0.52	2	0.01	0.06	0.01	0.01	46.3	5	17	60	90	6
583	1.87	54.12	2.68	0.4	0.55	0.16	0.01	0.09	0.03	0.01	41	5	32	320	160	7
584	1.38	52.52	4.64	0.33	0.49	0.16	0.01	0.05	0.02	0.01	41.2	5	16	220	150	7
585	3.76	51.65	3.51	0.53	0.87	0.15	0.01	0.04	0.04	0.01	39	12	21	200	120	13
586	0.69	55.37	3.75	0.18	0.08	0.03	0.01	0.02	0.01	0.01	43.1	5	15	250	120	7
587	2.92	41.11	12.85	0.4	0.55	0.01	0.01	0.06	0.01	0.01	42.9	5	15	190	140	8
588	0.28	55.75	3.78	0.18	0.1	0.01	0.01	0.02	0.01	0.01	44.5	5	14	350	90	8
589	1.83	53.47	3.96	0.42	0.25	0.16	0.01	0.02	0.02	0.01	40.9	5	16	350	160	8
590	9.44	27.51	16.85	2.12	1.94	0.45	0.01	0.15	0.08	0.01	43.1	5	19	90	90	14
591	1.59	57.09	0.32	0.45	0.05	0.07	0.01	0.02	0.01	0.01	42.5	5	12	1210	280	8
592	6.51	46.37	1.4	2.69	0.59	0.62	0.01	0.04	0.09	0.01	37.5	19	10	300	100	12
593	20	24.91	3.81	5	2.88	1.37	0.97	0.04	0.29	0.08	16.4	12	370	400	260	50
594	15.3	38.82	3.83	1.09	0.33	0.33	0.01	0.03	0.04	0.01	32.6	5	122	390	500	9
595	9.31	42.45	3.09	2.39	0.47	0.6	0.01	0.05	0.07	0.01	36	5	16	270	370	14
596	1.91	50.78	4.48	0.65	0.28	0.11	0.01	0.01	0.01	0.01	41.9	5	12	540	180	6
597	4.77	44.9	6.15	1.21	0.94	0.56	0.01	0.02	0.06	0.01	40	5	16	260	170	6
598	3.33	53.73	2.1	0.75	0.95	0.01	0.01	0.07	0.01	0.01	41	5	26	380	110	6
599	3.75	28.15	19.47	1.25	0.7	0.16	0.24	0.07	0.07	0.01	43.1	5	14	70	80	3
600	0.12	31.41	16.71	0.37	3.41	0.01	0.01	0.21	0.01	0.01	47.9	5	17	130	80	3
601	5.02	46.81	3.28	0.88	0.34	0.33	0.01	0.02	0.01	0.01	39.3	18	40	240	110	6
602	6.22	32.77	15.78	0.09	0.54	0.01	0.01	0.08	0.01	0.01	39	5	20	220	50	6
603	4.22	31.17	18.2	0.06	0.58	0.01	0.01	0.12	0.01	0.01	41.3	5	24	130	70	3
604	0.01	29.89	20.76	0.11	0.37	0.01	0.01	0.04	0.01	0.01	46.7	5	10	60	60	6
605	2.09	28.73	20.82	0.79	0.31	0.28	0.01	0.04	0.02	0.01	44.5	5	18	50	200	3
606	2.35	28.26	21.02	1	0.53	0.04	0.01	0.06	0.07	0.01	44	5	20	80	70	3
607	2.85	28.26	20.37	0.97	0.28	0.32	0.01	0.05	0.04	0.01	43.9	5	14	50	60	3
608	2.17	29.4	20.39	0.69	0.38	0.1	0.01	0.05	0.02	0.01	44.6	5	24	130	70	3

609	0.67	30.86	18.42	0.34	0.35	0.01	0.01	0.04	0.01	0.01	46.1	31	160	110	70	6
610	1.78	29.72	19.57	0.32	1.15	0.09	0.01	0.11	0.01	0.01	44.5	5	62	150	140	6
611	20	13.31	10.27	1.99	0.66	0.64	0.17	0.03	0.11	0.01	2.6	5	40	640	320	11
612	0.24	51.96	6.15	0.23	0.15	0.03	0.01	0.03	0.01	0.01	44.4	5	12	150	100	7
613	20	24.05	4.67	5	3.79	1.39	1.42	0.04	0.54	0.33	8.1	14	96	460	670	16
614	20	31.18	3.13	5	2.63	0.49	0.37	0.05	0.16	0.11	22.2	5	45	420	230	8
615	20	17.79	4.16	5	5.85	1.3	1.84	0.1	0.42	0.25	2.8	12	116	440	570	8
616	20	28.23	4.12	5	3.56	0.77	0.55	0.05	0.26	0.2	18.5	11	78	480	300	8
617	20	27.89	3.68	5	3.64	0.61	1.03	0.06	0.26	0.14	17.1	5	78	420	240	13
618	20	24.1	5.48	5	4.71	1.29	1.71	0.04	0.43	0.09	10.8	5	76	580	490	23
619	13.8	36.95	1.28	3.53	1.34	1.43	0.27	0.08	0.11	0.01	28.6	5	31	750	460	18
620	2.38	47.49	6.34	0.71	0.58	0.01	0.01	0.02	0.05	0.01	39.6	5	44	310	110	12
621	2.96	29.08	19.63	0.35	0.86	0.01	0.01	0.06	0.01	0.01	44.6	5	42	90	100	6
622	12.8	38.81	2.17	3.31	0.86	0.93	0.01	0.08	0.14	0.07	32.8	5	20	180	180	13
623	11.1	41.96	2.43	2.3	0.8	0.75	0.01	0.07	0.11	0.06	33.9	5	12	170	170	13
624	20	24.2	3.23	5	4.07	1.21	1.38	0.04	0.41	0.13	10.2	10	64	310	320	30
625	4.69	47.06	5.93	1.09	0.55	0.39	0.01	0.03	0.06	0.01	38.1	5	29	200	150	10
626	3.34	48.95	5.14	1.01	0.25	0.17	0.01	0.01	0.03	0.01	40	5	19	530	320	8
627	5.06	47.4	4.59	1.52	0.89	0.27	0.01	0.03	0.05	0.01	37.3	5	24	500	180	8
628	1.17	58.49	0.73	0.35	0.66	0.05	0.01	0.04	0.01	0.01	42.6	5	50	460	110	12
629	20	32.99	7.32	2.53	2.26	0.38	0.12	0.25	0.08	0.01	29.5	5	16	370	440	12
630	2.76	51.18	3.62	0.85	0.18	0.34	0.01	0.02	0.03	0.01	42.6	12	17	510	120	14
631	9.6	40.85	7.09	1.79	0.54	0.96	0.01	0.02	0.1	0.01	35.7	5	24	150	200	9
632	5.78	44.91	4.02	1.82	1.28	0.15	0.11	0.04	0.04	0.01	37.3	5	26	440	220	7
633	2.07	51.56	4.61	0.6	0.53	0.11	0.01	0.04	0.02	0.01	41.5	5	16	370	140	9
634	3.06	55.97	0.63	0.51	0.22	0.22	0.01	0.01	0.01	0.01	40.5	13	32	300	320	12
635	2.86	47.76	5.97	0.86	0.26	0.18	0.01	0.02	0.02	0.01	43.1	5	12	520	170	8
636	2.4	49.2	5.69	0.91	0.15	0.25	0.01	0.01	0.02	0.01	42.6	5	22	540	230	8
637	2.79	50.99	4.16	1.13	0.11	0.26	0.01	0.01	0.02	0.01	41.5	5	16	490	160	10
638	2.66	50.02	4.56	1.17	0.23	0.18	0.01	0.01	0.02	0.01	42.5	5	16	520	140	12
639	3.91	50.98	2.87	1.22	0.21	0.65	0.01	0.04	0.06	0.01	39.2	35	50	660	200	31
640	14.1	26.88	20.91	1.28	1.06	0.03	0.01	0.08	0.05	0.01	37.5	5	88	140	50	11
641	2.78	29.07	20.61	0.15	0.27	0.01	0.01	0.04	0.01	0.01	45.3	5	20	70	40	6
642	20	35.87	1.22	2.77	0.42	1.27	0.01	0.03	0.06	0.01	31.7	14	14	150	470	20
643	3.96	48.8	4.06	1.13	0.49	0.21	0.01	0.03	0.03	0.01	41.2	5	12	350	130	14
644	20	24.59	6.19	5	1.78	2	0.3	0.02	0.21	0.01	15.1	10	83	230	360	24
645	7.63	42.57	5.99	2.5	0.88	0.82	0.01	0.03	0.08	0.01	37.2	5	28	300	110	6
646	20	25.5	3.72	5	2.26	0.36	3	0.05	0.29	0.08	10.5	5	50	390	230	6
647	20	18.78	3.71	5	3.26	0.35	3	0.06	0.3	0.18	3.8	5	50	510	440	6
648	2.84	38.93	12.55	0.83	0.98	0.01	0.01	0.05	0.02	0.01	43.3	5	20	240	60	7
649	2.68	55.8	2.33	0.49	0.4	0.01	0.01	0.05	0.01	0.01	40.6	5	14	240	60	15
650	4.73	49.9	3.9	1.02	0.6	0.1	0.01	0.03	0.04	0.01	38.9	5	29	310	120	12
651	2.9	49.47	5.77	0.88	0.28	0.31	0.01	0.02	0.02	0.01	42.2	5	21	460	140	8
652	8.24	36.83	6.93	2.79	0.87	2	0.01	0.02	0.11	0.01	38.6	5	12	140	90	11
653	20	28.96	5.84	5	4.21	1.24	0.28	0.07	0.44	0.09	24	5	36	200	100	20
654	2.12	28.19	19.36	0.43	0.52	0.04	0.01	0.04	0.01	0.01	45.2	5	17	60	40	6
655	8.15	42.31	4.93	2.61	1.57	0.59	0.13	0.02	0.1	0.01	32.8	5	37	420	310	10
656	20	7.54	2.76	5	2.31	0.51	3	0.03	0.45	0.15	1.8	5	44	330	100	8
657	20	14.99	2.02	5	1.38	0.57	3	0.07	0.36	0.15	2.9	5	41	400	280	10
658	20	25.89	4.24	5	4.01	2	0.77	0.11	0.3	0.27	14	5	150	400	580	70
659	4.5	49.12	4.14	1.3	1.3	0.21	0.01	0.04	0.08	0.01	37.6	5	30	400	120	8
660	15.7	34.8	10.35	3.01	1.05	0.96	0.01	0.03	0.11	0.06	30.7	5	18	420	150	12
661	20	24.03	6.08	5	5.53	0.4	3	0.06	0.36	0.09	10.5	5	50	340	210	14
662	11.3	37.5	8.89	1.89	1.25	0.4	0.08	0.06	0.1	0.01	34.2	5	39	210	550	8
663	3.65	52.47	2.28	1.07	0.63	0.01	0.01	0.02	0.04	0.01	40.7	5	26	500	90	8
664	5.37	44.96	6.93	1.21	0.57	0.37	0.01	0.03	0.05	0.01	39.6	5	28	360	330	11

665	9.45	44.05	1.01	1.9	0.74	0.29	0.13	0.02	0.08	0.01	36.8	19	26	2250	560	9
666	10.2	43.94	1.01	3.08	0.47	0.72	0.01	0.03	0.07	0.01	38.5	27	81	710	200	12
667	1.9	53.31	2.7	0.6	1.13	0.05	0.01	0.04	0.04	0.01	41.6	12	38	170	160	6
668	5.91	43.5	4.44	2.26	1.01	0.55	0.01	0.02	0.08	0.01	40.1	5	22	340	190	10
669	2.28	56.15	0.45	0.58	0.17	0.05	0.01	0.01	0.02	0.01	42.5	22	18	2420	390	6
670	4.81	28.9	17.04	0.92	4.23	0.03	0.01	0.3	0.01	0.01	43.7	12	51	170	70	62
671	8.7	37.68	4.89	2.98	2.44	0.45	0.24	0.02	0.23	0.06	34.9	5	48	470	400	6
672	15.4	33.88	8.08	3.26	1.36	0.2	0.39	0.03	0.13	0.1	28.3	13	37	140	120	9
673	8.42	26.67	19.87	2.64	1.69	0.43	0.01	0.07	0.13	0.01	42.8	5	36	90	260	3
674	20	26.24	4.01	5	7.04	0.76	1.12	0.06	0.62	0.14	17.6	5	32	220	150	44
675	4.68	28.34	18.42	1.67	2.57	0.34	0.01	0.05	0.09	0.01	43.3	5	88	100	140	32
676	4.27	50.7	2.44	1.41	0.44	0.35	0.01	0.01	0.05	0.01	40.4	5	14	190	180	6
677	0.33	29.07	19.65	0.42	2.12	0.06	0.01	0.06	0.01	0.01	46.3	5	35	690	190	8
678	5.08	52.9	0.9	0.93	0.21	0.2	0.01	0.02	0.02	0.01	39.1	5	32	90	90	6
679	20	2.64	3.98	5	3.62	2	1.61	0.07	0.43	0.08	2.2	5	19	120	380	3
680	4.13	49.41	4.25	1.31	0.5	0.47	0.01	0.03	0.04	0.01	40	5	19	530	180	6
681	0.97	49.05	5.04	0.55	0.27	0.15	0.01	0.03	0.02	0.01	41.7	5	22	150	140	6
682	0.87	29.24	20.25	0.11	0.29	0.01	0.01	0.07	0.01	0.01	45.2	5	18	50	150	3
683	0.25	29.98	20.69	0.08	0.34	0.01	0.01	0.09	0.01	0.01	46.3	5	14	50	100	3
684	1.1	29.18	20.77	0.14	0.17	0.01	0.01	0.05	0.01	0.01	46.4	5	10	40	110	3
685	2.61	49.53	5.49	0.74	0.65	0.3	0.01	0.02	0.03	0.01	41.1	5	15	350	120	3
686	0.54	29.77	20.45	0.22	0.72	0.01	0.01	0.05	0.01	0.01	46.3	5	16	160	70	3
687	5.97	29.02	17.97	1.25	1.63	0.1	0.01	0.16	0.09	0.01	42	5	23	80	100	8
688	20	31.27	8.82	2.19	0.92	0.52	0.24	0.06	0.07	0.01	22.8	5	14	100	350	24
689	0.68	54.01	3.82	0.23	0.06	0.07	0.01	0.02	0.01	0.01	42.9	5	12	150	120	8
690	0.01	52.12	6.48	0.11	0.01	0.01	0.01	0.02	0.01	0.01	44	5	42	90	90	10
691	0.1	53.89	5.44	0.12	0.01	0.01	0.01	0.01	0.01	0.01	43	5	12	110	130	6
692	0.01	54.72	2.79	0.09	0.01	0.01	0.01	0.01	0.01	0.01	43	5	10	90	100	6
693	6.76	33.25	17.72	0.05	0.44	0.01	0.01	0.08	0.01	0.01	39.7	5	65	230	80	3
694	2.53	57.39	1.81	0.18	0.04	0.01	0.01	0.02	0.01	0.01	40.1	5	20	110	160	6
695	20	39.8	0.42	0.32	0.07	0.05	0.01	0.15	0.01	0.01	21	11	118	160	1340	6
696	3.5	53.49	4.24	0.62	0.15	0.01	0.01	0.02	0.01	0.01	41.9	5	13	1160	80	7
697	0.68	60.22	0.58	0.16	0.05	0.01	0.01	0.04	0.01	0.01	42.1	300	170	110	110	6
698	0.23	59.6	1.5	0.23	0.01	0.01	0.01	0.05	0.01	0.01	46.1	5	12	130	110	7
699	0.5	54.09	4.94	0.17	0.03	0.02	0.01	0.08	0.01	0.01	42.2	22	14	180	160	6
700	1.56	29.8	20.03	0.06	0.03	0.01	0.01	0.05	0.01	0.01	43.5	5	19	50	70	3
701	4.24	45.7	6.87	0.68	0.75	0.02	0.01	0.02	0.05	0.01	37.6	5	14	240	120	22
702	3.96	46.3	8.11	0.59	0.4	0.11	0.01	0.09	0.02	0.01	43.3	5	16	190	180	10
703	10.4	26.2	20.9	0.56	2.16	0.01	0.01	0.14	0.02	0.01	36.8	5	24	130	70	3
704	13	29	19	1.24	1.43	0.7	0.01	0.15	0.09	0.01	36.9	80	160	120	1490	12
705	20	25.2	23.2	0.45	2.06	0.01	0.01	0.13	0.01	0.01	35.7	5	16	100	130	6
706	0.82	53.5	4.19	0.26	0.5	0.05	0.01	0.03	0.01	0.01	42.3	5	22	580	180	7
707	7.67	33.8	17.3	0.25	2.05	0.01	0.01	0.06	0.02	0.01	42	5	48	210	90	3
708	0.05	29.4	20.5	0.05	0.22	0.01	0.01	0.05	0.01	0.01	46.3	5	12	50	70	3
709	0.8	29.6	20.6	0.09	0.26	0.01	0.01	0.06	0.01	0.01	45.8	5	37	40	60	3
710	1.78	55	3.09	0.64	0.24	0.07	0.01	0.07	0.02	0.01	40.8	113	810	100	80	10
711	0.3	58.3	2.16	0.09	0.03	0.01	0.01	0.02	0.01	0.01	42.3	5	18	110	210	3
712	1.17	56.4	2.42	0.23	0.01	0.06	0.01	0.01	0.01	0.01	41.8	5	12	410	130	6
713	2.34	55.5	2.94	0.39	0.04	0.01	0.01	0.01	0.01	0.01	41.1	5	12	190	130	6
714	4.55	51.8	2.45	0.66	0.58	0.01	0.01	0.04	0.01	0.01	40.6	5	17	250	230	9
715	1.2	58.7	1.29	0.32	0.13	0.01	0.01	0.01	0.01	0.01	42.2	17	240	430	180	7
716	1.28	29.9	20.5	0.05	0.36	0.01	0.01	0.08	0.01	0.01	47.6	5	30	50	60	3
717	3.6	29.3	19.4	0.1	0.45	0.01	0.01	0.11	0.01	0.01	41.1	5	25	120	1740	8
718	0.93	29.3	20.1	0.12	0.76	0.01	0.01	0.12	0.01	0.01	45.8	5	76	70	100	8
719	2.98	28.9	19.6	0.34	1.32	0.01	0.01	0.17	0.01	0.01	44.4	5	48	110	250	3
720	5.34	45.1	8.84	0.66	0.31	0.36	0.01	0.03	0.02	0.01	39.5	5	20	190	220	7

721	4.09	30	19.7	1.29	1.19	0.22	0.01	0.04	0.08	0.08	41.3	5	73	260	100	6
722	3.32	51.7	6.88	0.55	0.22	0.1	0.01	0.01	0.01	0.09	42.2	5	23	580	300	6
723	7.34	34	17.2	1.53	0.71	0.01	0.01	0.1	0.04	0.08	39.4	67	550	70	90	14
724	20	25	18.8	5	0.37	0.05	0.01	0.05	0.01	0.07	11.1	15	66	180	280	6
725	0.18	29.3	20.4	0.31	0.87	0.02	0.01	0.11	0.01	0.01	51.8	5	8	100	190	3
726	0.01	31.8	18.9	0.09	0.3	0.01	0.01	0.05	0.01	0.01	47	17	550	60	110	9
727	0.44	52.1	4.49	0.24	0.06	0.12	0.01	0.01	0.01	0.01	43.8	5	10	380	180	3
728	0.18	53.9	4.65	0.16	0.08	0.04	0.01	0.01	0.01	0.01	43.4	5	8	340	160	3
729	0.19	48.9	7.7	0.11	0.08	0.01	0.01	0.03	0.01	0.01	43.6	5	14	110	110	6
730	0.09	52.4	5.63	0.11	0.01	0.01	0.01	0.01	0.01	0.01	44.2	5	9	250	130	3
731	1.81	29	21	0.05	0.16	0.01	0.01	0.03	0.01	0.01	44.2	5	13	80	80	3
732	15.8	31.2	16.1	0.06	0.31	0.01	0.01	0.06	0.01	0.01	32.2	5	25	180	620	3
733	0.1	59.2	0.89	0.11	0.01	0.01	0.01	0.01	0.01	0.01	43.3	5	8	110	130	3
734	0.18	53.9	4.42	0.14	0.04	0.01	0.01	0.01	0.01	0.01	43.4	5	12	90	100	3
735	1.7	29.4	2.09	0.27	0.32	0.01	0.01	0.03	0.01	0.01	45.1	5	18	50	50	3
736	10.1	47.9	0.81	0.94	0.1	0.08	0.01	0.03	0.01	0.01	32.9	32	36	100	90	3
737	2	54.5	0.64	0.67	0.36	0.1	0.01	0.01	0.02	0.01	42.2	5	30	2340	410	7
738	2.49	29.8	19.2	0.05	0.51	0.01	0.01	0.18	0.01	0.01	44.7	5	22	100	60	3
739	1.51	55.7	0.3	0.57	0.16	0.11	0.01	0.03	0.02	0.01	42.5	5	21	1550	630	9
740	0.57	52.8	4.6	0.18	0.01	0.02	0.01	0.01	0.01	0.01	43.6	5	11	330	150	6
741	0.29	44.5	9.67	0.15	0.04	0.01	0.01	0.01	0.01	0.01	44.5	5	10	170	100	3
742	0.01	51.9	4.37	0.12	0.01	0.01	0.01	0.01	0.01	0.01	43.7	5	10	210	110	3
743	0.82	53.2	4.62	0.13	0.02	0.01	0.01	0.01	0.01	0.01	42.1	5	12	270	110	3
744	20	28	4.06	5	1.43	0.01	0.01	0.06	0.11	0.01	28.3	5	10	150	50	8
745	20	39.5	1.34	0.99	0.4	0.22	0.01	0.03	0.04	0.02	34.2	5	75	310	170	6
746	0.01	54.3	5.12	0.11	0.01	0.01	0.01	0.01	0.01	0.01	43.6	5	12	160	90	6
747	9	26.4	21.1	0.08	0.27	0.01	0.01	0.04	0.01	0.01	36.9	5	18	170	40	3
748	9.85	26.9	20.5	0.06	0.01	0.01	0.01	0.03	0.01	0.01	37.4	5	20	140	60	3
749	20	35.3	11.2	0.19	0.45	0.01	0.01	0.04	0.01	0.01	24.5	5	25	90	60	6
750	0.34	53.6	3.77	0.15	0.14	0.01	0.01	0.01	0.01	0.01	42.9	5	16	260	90	6
751	2.73	46.7	4.86	0.74	0.8	0.18	0.01	0.04	0.04	0.01	40.3	5	18	430	200	25
752	0.45	51.7	4.72	0.22	0.04	0.02	0.01	0.01	0.01	0.01	43.1	5	15	430	150	8
753	7.86	41.4	4.3	2.06	0.76	0.01	0.37	0.03	0.1	0.08	34.9	5	16	460	70	9
754	0.83	53	3.12	0.33	0.11	0.01	0.01	0.01	0.01	0.03	42.8	5	14	600	90	8
755	0.81	53.2	4.87	0.38	0.1	0.1	0.01	0.01	0.01	0.01	43.1	5	16	470	120	7
756	0.43	53.6	4.76	0.16	0.01	0.02	0.01	0.01	0.01	0.01	42.9	5	15	240	100	6
757	1.38	45	8.71	0.38	0.23	0.18	0.01	0.03	0.01	0.02	44.1	5	19	80	90	7
758	4.14	48.1	4.81	1.08	0.3	0.2	0.11	0.02	0.01	0.01	39.9	5	13	180	80	8
759	14.3	35.5	8.97	0.09	4.36	0.01	0.01	0.03	0.01	0.01	30.1	5	14	170	70	6
760	0.95	45.1	9.03	0.15	0.01	0.01	0.01	0.01	0.01	0.01	43.7	5	12	790	80	6
761	1.03	54.2	2.83	0.29	0.07	0.04	0.01	0.01	0.01	0.01	42.4	5	18	150	60	7
762	1.23	50.5	4.62	0.31	0.17	0.07	0.01	0.01	0.01	0.01	42.4	5	18	440	150	6
763	6.03	44.8	5.27	1.8	0.62	0.33	0.04	0.01	0.1	0.04	37.1	5	17	440	130	10
764	1.84	50.1	5.14	0.45	0.2	0.21	0.01	0.01	0.01	0.01	43	5	14	260	130	6
765	11.1	41.8	6.27	0.95	0.61	0.29	0.01	0.03	0.03	0.01	36.9	5	14	190	620	10
766	0.06	28.9	19.8	0.15	0.19	0.01	0.01	0.04	0.01	0.01	46.5	5	14	60	60	3
767	1.2	30.6	19.2	0.23	0.76	0.08	0.01	0.1	0.01	0.01	45.9	5	40	80	110	6
768	1.1	51.4	4.1	0.43	0.24	0.26	0.01	0.03	0.01	0.01	42.3	5	16	340	180	8
769	0.39	49.7	5.57	0.17	0.35	0.06	0.01	0.03	0.01	0.01	42.7	5	19	320	80	7
770	0.34	53.8	4.34	0.15	0.27	0.04	0.01	0.01	0.01	0.01	43.1	5	19	370	110	6
771	0.09	53.4	3.09	0.12	0.04	0.01	0.01	0.01	0.01	0.01	43.4	5	16	270	80	6
772	0.01	53.5	3.27	0.11	0.01	0.01	0.01	0.01	0.01	0.01	43.8	5	18	320	80	6
773	0.32	51.2	5.19	0.21	0.01	0.04	0.01	0.01	0.01	0.01	42.7	5	12	240	110	7
774	0.07	53.6	4.77	0.13	0.03	0.01	0.01	0.01	0.01	0.01	43.2	5	10	170	70	6
775	1.01	49.2	5.21	0.39	0.15	0.14	0.01	0.01	0.01	0.01	42.7	5	15	300	90	6
776	0.4	51.2	4.75	0.18	0.06	0.03	0.01	0.01	0.01	0.01	43.5	5	13	380	110	6

777	0.28	50.6	4.45	0.14	0.01	0.02	0.01	0.03	0.01	0.01	43.2	5	19	140	90	6
778	0.36	30	19.3	0.11	0.14	0.01	0.01	0.02	0.01	0.01	45.6	5	13	80	60	6
779	0.94	53.5	3.25	0.18	0.16	0.01	0.01	0.07	0.01	0.01	43.3	5	15	580	90	6
780	0.01	52.7	4.09	0.12	0.04	0.02	0.01	0.01	0.01	0.01	43.4	5	12	320	100	6
781	0.3	52.6	4.82	0.13	0.03	0.03	0.01	0.02	0.01	0.01	42.9	5	13	120	80	6
782	0.13	52.5	4.53	0.1	0.01	0.01	0.01	0.01	0.01	0.01	43.3	5	10	200	100	6
783	11.8	27.7	21.1	0.04	0.01	0.01	0.01	0.03	0.01	0.01	43.2	5	10	270	130	6
784	1.33	50.4	4.71	0.26	0.14	0.11	0.01	0.03	0.02	0.01	48.4	5	15	340	100	6
785	0.02	50.1	5.76	0.13	0.02	0.01	0.01	0.01	0.01	0.01	43.5	5	13	330	100	8
786	0.12	53.7	3.99	0.11	0.01	0.01	0.01	0.01	0.01	0.01	43.7	5	53	330	60	8
787	0.92	51.4	4.03	0.2	0.13	0.05	0.01	0.01	0.01	0.01	43.5	5	11	350	110	8
788	0.56	53.8	4.3	0.16	0.05	0.02	0.01	0.01	0.01	0.01	41.9	5	10	370	100	8
789	0.94	50.5	4.29	0.1	0.02	0.01	0.01	0.01	0.01	0.01	43.5	5	10	280	80	8
790	0.48	53.8	3.79	0.19	0.13	0.03	0.01	0.02	0.01	0.01	42.3	5	10	470	160	8
791	0.18	45.3	8.01	0.16	0.02	0.03	0.01	0.01	0.01	0.01	44.2	5	10	150	70	6
792	5.52	27.5	20.7	0.03	0.01	0.01	0.01	0.03	0.01	0.01	42.8	5	16	120	30	8
793	0.65	52.1	4.79	0.19	0.06	0.08	0.01	0.01	0.01	0.01	42.9	5	12	170	110	8
794	11.3	26.9	21.4	0.12	0.89	0.01	0.01	0.06	0.01	0.01	40.4	5	16	100	40	10
795	1.28	28.6	19.9	0.19	0.58	0.05	0.01	0.07	0.01	0.01	45.3	5	10	50	50	8
796	20	24.4	19.6	0.18	0.95	0.01	0.01	0.06	0.01	0.01	25.8	5	24	70	30	8
797	0.2	51.9	3.69	0.14	0.01	0.02	0.01	0.01	0.01	0.01	39.4	5	14	130	40	7
798	10.5	26.9	19.9	0.04	0.01	0.01	0.01	0.03	0.01	0.01	34.5	5	38	120	100	8
799	0.63	50.1	5.19	0.19	0.18	0.07	0.01	0.02	0.01	0.01	43.1	5	11	180	90	8
800	0.36	46.4	8.57	0.14	0.1	0.04	0.01	0.01	0.01	0.01	43.4	5	13	200	90	14
801	5.27	27.7	20.3	0.04	0.19	0.01	0.01	0.03	0.01	0.01	42	5	10	150	40	7
802	20	25.6	21.8	0.06	0.06	0.01	0.01	0.02	0.01	0.01	29.7	5	25	170	100	6
803	20	24.4	23.7	0.05	0.24	0.01	0.01	0.03	0.01	0.01	30.6	5	22	360	30	6
804	1.34	53.1	2.31	0.24	0.23	0.06	0.01	0.03	0.01	0.02	43.3	5	10	700	70	10
805	20	25.1	22	0.09	0.21	0.01	0.01	0.03	0.01	0.01	26.4	5	30	190	50	6
806	10.7	26.8	20.6	0.04	0.01	0.01	0.01	0.02	0.01	0.01	35	5	13	100	40	6
807	20	25.3	23.5	0.09	0.14	0.01	0.01	0.03	0.01	0.01	36.2	5	17	340	40	6
1001	3.34	29.6	19.9	0.43	0.44	0.22	0.01	0.05	0.04	0.01	44.3	5	24	200	120	16
1002	1.25	32.9	10.6	0.07	1.5	0.01	0.01	0.18	0.02	2	40.9	5	46	1700	4200	16
1003	0.76	58.2	0.42	0.34	0.1	0.03	0.01	0.01	0.01	0.01	42.2	5	12	1820	220	10
1004	1.39	54.5	0.94	0.31	0.08	0.01	0.01	0.01	0.01	0.01	41.9	5	12	1450	70	10
1005	0.46	56.3	1.74	0.13	0.01	0.01	0.01	0.01	0.01	0.01	42.3	5	10	1320	290	8
1006	6.45	47.3	4.04	0.45	0.42	0.01	0.01	0.17	0.01	0.02	38.8	5	11	340	130	8
1007	4.01	52.5	0.89	0.25	0.2	0.01	0.01	0.01	0.01	0.01	41.3	5	14	1840	120	9
1008	1.08	55.7	0.41	0.34	0.12	0.06	0.01	0.02	0.01	0.02	43.2	5	12	1450	110	9
1009	7.74	45.4	0.65	0.87	0.35	0.23	0.01	0.01	0.02	0.01	32.7	5	24	1930	250	16
1010	8.63	46.3	0.46	1.3	0.6	0.05	0.33	0.02	0.09	0.03	32.5	5	14	1380	110	12
1011	3.66	35.7	13.7	0.43	0.85	0.01	0.01	0.17	0.01	0.01	43.5	5	122	150	60	7
1012	11	39.8	1	2.84	0.36	0.69	0.16	0.01	0.01	0.01	31.8	5	18	1250	320	8
1013	12.1	40.4	2.3	2.28	0.6	0.14	0.05	0.01	0.02	0.02	32.3	5	22	1540	130	9
1014	6.77	46.7	1.73	1.66	0.65	0.38	0.01	0.01	0.03	0.05	37.6	5	12	1300	220	14
1015	6.31	47.1	5.27	1.24	0.71	0.31	0.01	0.02	0.03	0.01	38.6	5	45	240	70	13
1016	1.87	52.7	3.57	0.37	0.04	0.08	0.01	0.01	0.01	0.01	41.3	5	33	140	100	8
1017	6.8	45.4	4.82	1.85	0.97	0.13	0.01	0.02	0.09	0.01	38.2	5	32	270	120	10
1018	9.29	42.4	5.68	2.29	1.35	0.13	0.01	0.02	0.07	0.11	37.4	5	12	720	110	12
1019	5.18	27.9	18	0.64	0.92	0.19	0.01	0.15	0.04	0.02	45.2	5	6	80	90	12
1020	6.09	45	2.86	1.56	1.17	0.27	0.01	0.03	0.05	0.02	38.4	5	22	170	110	12
1021	9.1	46.3	1.44	1.77	0.2	0.13	0.01	0.01	0.01	0.02	36.5	5	12	2190	1930	8
1022	14.6	34.7	9.05	2.33	1.43	0.62	0.08	0.04	0.12	0.01	27.6	5	42	1500	460	15
1023	13.7	42.8	6.45	1.57	0.67	0.01	0.01	0.02	0.01	0.01	34.7	5	31	1240	210	9
1024	1.75	54	3.78	0.36	0.15	0.12	0.01	0.01	0.01	0.02	40.5	5	22	510	180	9
1025	1.99	38.5	11.4	0.68	0.87	0.01	0.01	0.16	0.04	0.01	51.3	5	10	160	80	8

1026	2.78	54.6	2.3	0.76	0.53	0.03	0.01	0.02	0.02	0.02	45.4	5	15	1210	110	14
1027	2.93	54.7	2.91	0.5	0.31	0.01	0.01	0.01	0.01	0.01	40.4	5	12	1000	280	9
1028	0.16	50.2	7.25	0.13	0.04	0.01	0.01	0.06	0.01	0.01	46.6	5	12	420	90	6
1029	5.04	52.2	2.16	0.58	0.59	0.05	0.01	0.01	0.01	0.01	39.8	5	5	600	120	9
1030	3.02	50	4.18	0.77	0.51	0.16	0.01	0.03	0.04	0.01	41.9	5	24	320	150	10
1031	6.82	37.6	10.5	1.79	3.09	0.01	0.01	0.18	0.07	0.01	38.9	5	13	180	70	9
1032	8.43	27.4	22.4	0.72	0.94	0.28	0.01	0.09	0.06	0.02	46.3	5	47	60	90	24
1033	1.17	50.8	4.35	0.41	0.24	0.16	0.01	0.22	0.01	0.01	42.4	5	34	140	140	9
1034	20	17.6	25.3	0.34	0.47	0.01	0.01	0.05	0.04	0.01	5.1	5	24	60	60	3
1035	7.84	45.7	0.31	1.83	0.42	0.42	0.09	0.02	0.03	0.01	34.2	5	12	1200	180	10
1036	20	26.4	1.6	5	2.63	1.67	0.37	0.02	0.34	0.24	11.6	5	16	1530	1080	22
1037	1.45	57.5	0.15	0.22	0.21	0.01	0.03	0.01	0.01	0.01	39.4	5	12	3500	240	8
1038	0.27	58.3	0.52	0.14	0.01	0.01	0.01	0.02	0.01	0.01	43	5	8	980	90	8
1039	20	29.7	2.93	5	1.94	0.8	0.38	0.03	0.16	0.02	23	5	26	1300	510	17
1040	20	32.9	4.58	5	1.28	1.79	0.01	0.22	0.12	0.02	34	5	14	190	190	8
1041	11.7	40.8	2.31	2.44	0.63	0.42	0.03	0.02	0.03	0.08	33.9	5	24	1570	360	8
1042	14.5	43.1	1.25	1.06	0.62	0.09	0.01	0.02	0.02	0.06	33.1	5	13	1050	110	9
1043	1.79	54.5	3.1	0.33	0.39	0.01	0.01	0.1	0.01	0.01	48.9	5	26	210	120	10
1044	2.96	55.7	1.57	0.64	0.27	0.04	0.01	0.01	0.03	0.01	40.6	5	12	1320	90	10
1045	0.13	39.8	13.7	0.11	0.54	0.01	0.01	0.12	0.01	0.01	45.2	5	10	90	60	8
1046	20	15.2	1.44	5	0.93	1.79	1.45	0.03	0.05	0.01	6	5	12	420	340	6
1047	20	27.4	2.15	5	0.87	1.36	0.01	0.19	0.11	0.26	21.7	5	10	150	140	35
1048	3.81	53.1	1.21	0.92	0.49	0.15	0.01	0.02	0.04	0.02	40	71	150	1250	70	12
1049	20	1.7	1.68	5	0.55	1.79	2	0.02	0.04	0.01	0.6	5	28	760	980	3
1050	20	14.7	8.75	5	2.72	0.91	0.08	0.09	0.23	0.08	9.2	5	13	870	130	10
1051	4.11	54.7	4.69	0.42	0.02	0.01	0.01	0.01	0.01	0.01	43	5	20	110	230	10
1052	20	1.73	0.25	5	0.39	1.79	3	0.02	0.04	0.01	0.8	5	17	120	40	3
1053	4.23	54.8	3.3	0.43	0.14	0.01	0.01	0.02	0.01	0.02	42.4	5	14	920	100	9
1054	2.67	55.2	1.07	0.77	0.48	0.1	0.01	0.01	0.09	0.02	41.8	46	260	1400	670	12
1055	0.7	61.3	0.01	0.24	0.01	0.01	0.01	0.13	0.01	0.01	43.9	5	10	90	120	11
1056	4.84	52.1	2.17	0.96	0.62	0.03	0.01	0.02	0.02	0.07	42.3	27	46	870	90	10
1057	3.44	53.6	2.37	0.71	0.09	0.31	0.01	0.02	0.04	0.02	44.8	49	180	270	130	13
1058	10.4	35.5	4.59	3.39	2.03	0.65	0.31	0.2	0.37	0.09	32.5	5	41	790	210	18
1059	8.71	46.8	1.44	1.11	1	0.28	0.01	0.02	0.02	0.04	34.9	5	20	1000	210	11
1060	13.3	40.9	3	2.25	1.04	0.21	0.25	0.03	0.08	0.03	33.1	42	420	1310	190	12
1061	5.33	48.8	4.61	1.18	[illegible].2	0.46	0.01	0.01	0.01	0.03	35.2	5	14	1210	270	8
1062	20	38	1.15	5	0.82	0.64	0.33	0.02	0.11	0.01	25.5	5	29	1560	330	12
1063	15.2	37.2	3.08	2.96	1.48	0.57	0.34	0.03	0.07	0.18	28.6	5	36	460	180	12
1064	7.76	46.3	1.82	1.95	1.59	0.26	0.01	0.02	0.05	0.01	37.4	5	24	1750	420	13
1065	20	30.8	0.33	5	0.1	1.79	1.3	0.01	0.01	0.08	18.6	5	14	1440	420	9
1066	10.8	48.5	0.3	0.44	0.28	0.02	0.01	0.02	0.01	0.01	34.2	5	20	2080	160	10
1067	20	16	1.02	5	1.07	0.24	1.4	0.02	0.17	0.16	1.5	5	38	780	70	6
1068	20	31.5	7.98	5	4.07	0.44	0.01	0.04	0.3	0.05	29.5	5	510	450	160	17
1069	0.18	58.4	2.14	0.16	0.01	0.01	0.01	0.01	0.01	0.01	44.2	5	12	1250	160	10
1070	20	7.05	0.97	5	1.05	1.79	1.74	0.02	0.13	0.11	2.5	5	26	290	350	6
1071	4.47	54	0.94	0.6	0.38	0.01	0.01	0.02	0.02	0.04	38.9	5	30	1420	80	15
1072	20	28	5.99	5	3.56	1	0.2	0.03	0.23	0.02	20.4	5	30	440	260	15
1073	1.75	53.1	4.15	0.13	0.42	0.01	0.01	0.11	0.01	0.01	43.7	5	11	220	200	9
1074	3.95	45.5	5.79	1.07	0.78	0.37	0.01	0.25	0.04	0.03	41.5	5	15	150	230	13
1075	14.6	27.1	14	5	2.87	0.59	0.14	0.13	0.2	0.09	32.5	20	480	260	200	17
1076	0.33	60.2	0.58	0.13	0.1	0.01	0.01	0.02	0.01	0.01	43.6	5	12	1550	130	10
1077	20	30.2	12.2	5	4.02	0.53	0.01	0.04	0.13	0.04	28.4	5	24	390	160	16
1078	14.1	35.7	2.62	5	1.54	0.16	1.03	0.03	0.25	0.1	24.6	5	14	1300	180	10
1079	0.61	57.3	2.45	0.21	0.1	0.01	0.01	0.02	0.01	0.01	43.5	5	24	1330	100	13
1080	11.8	42.2	3.49	2.17	0.91	0.46	0.04	0.03	0.08	0.05	33.7	5	34	1220	240	10
1081	3.55	55.5	1.77	0.5	0.14	0.01	0.01	0.02	0.01	0.01	40.7	5	72	1400	230	11

1082	0.97	60.4	0.46	0.13	0.04	0.01	0.01	0.01	0.01	0.01	42	5	9	1500	130	10
1083	3.08	55.5	2.07	0.69	0.71	0.01	0.01	0.03	0.01	0.01	44.3	5	10	530	70	10
1084	4.55	52.3	1.6	1.14	0.49	0.3	0.01	0.02	0.03	0.01	40.7	13	15	1330	140	10
1085	5.3	53.9	0.99	0.41	0.14	0.1	0.01	0.02	0.05	0.01	42.9	5	13	1340	80	10
1086	0.35	53.3	5.46	0.16	0.02	0.01	0.01	0.01	0.01	0.01	42.5	5	12	310	80	9
1087	20	35.9	6.63	2.38	1.85	0.55	0.01	0.05	0.07	0.29	31.9	14	18	310	300	28
1088	0.73	34	17	0.39	0.34	0.06	0.01	0.13	0.01	0.01	44.8	5	15	380	80	6
1089	5.29	49.6	4.52	0.82	0.43	0.32	0.01	0.08	0.05	0.02	40.1	5	128	140	150	34
1090	1.07	53.1	5	0.19	0.14	0.02	0.01	0.02	0.01	0.01	42.9	5	12	1700	110	7
1091	2.44	45.3	8.53	0.55	0.14	0.26	0.01	0.02	0.02	0.02	41.8	5	13	560	180	10
1092	0.49	50.5	5.17	0.13	0.16	0.01	0.01	0.03	0.01	0.01	47.8	5	40	1900	120	12
1093	1.43	56.6	1.19	0.42	0.08	0.1	0.01	0.01	0.01	0.01	41.5	5	16	1590	270	10
1094	1.01	56.9	2.01	0.39	0.24	0.05	0.01	0.18	0.01	0.01	43	5	10	120	100	10
1095	15.3	29.4	7.11	5	2.13	1.67	0.01	0.18	0.22	0.05	28.9	16	26	420	600	43
1096	3.19	53.6	1.14	0.46	0.55	0	0	0.02	0	0	42.3	5	32	2900	120	11
1097	20	32	4.19	5	2.41	0.38	0.1	0.03	0.09	0.01	26.5	5	46	520	150	17
1098	1.14	29.6	19.5	0.17	1.17	0.01	0.01	0.18	0.01	0.01	48.7	5	10	60	60	8
1099	8.59	46.2	2.69	0.57	0.26	0.15	0.01	0.04	0.01	0.06	38.6	5	38	580	230	10
1100	9.29	44.2	1.8	1.13	0.95	0.06	0.01	0.02	0.05	0.09	36.5	5	32	3400	210	10
1101	6.06	44.5	3.53	1.99	2.23	0.36	0.01	0.09	0.14	0.02	38.1	5	665	830	440	10
1102	20	25.7	8.92	5	5.98	1.12	0.08	0.04	0.26	0.13	21.2	5	36	430	270	26
1103	3.68	50	2.45	1	0.56	0.3	0.01	0.04	0.05	0.02	40.8	5	19	1650	150	11
1104	20	25.7	1.36	5	2.44	0.8	0.69	0.02	0.22	0.13	12.4	5	24	440	140	26
1105	20	34.2	2.85	5	1.84	0.75	0.45	0.02	0.07	0.01	28.5	13	84	1900	510	14
1106	20	29.7	5.95	5	3.55	0.77	0.18	0.04	0.17	0.05	28.6	29	33	410	200	18
1107	8.12	37.5	5.85	1.8	1.93	0.54	0.05	0.22	0.09	0.09	38	5	3320	210	440	15
1108	20	36.5	1.42	3.1	1.52	0.63	0.04	0.02	0.1	0.01	28.2	5	50	1950	350	14
1109	4.64	46.1	4.37	1.6	0.63	0.09	0.14	0.02	0.02	0.02	37.7	5	28	170	100	6
1110	2.7	56.2	1.11	0.5	0.19	0.03	0.01	0.01	0.01	0.01	40.3	5	12	1620	130	12
1111	7.78	30.8	19.4	0.11	0.39	0.01	0.01	0.03	0.01	0.01	29.4	5	32	470	130	8
1112	1.83	43.1	11.2	0.39	0.24	0.06	0.01	0.01	0.02	0.01	40.9	5	9	910	190	8
1113	0.77	49.1	7.97	0.3	0.02	0.11	0.01	0.01	0.01	0.01	41.4	5	9	900	460	8
1114	5.89	50.8	1.93	0.74	0.42	0.14	0.01	0.01	0.03	0.07	39.2	11	23	1220	710	10
1115	4.77	53.4	2	0.73	0.4	0.05	0.01	0.01	0.01	0.01	39.8	5	12	2250	160	10
1116	0.99	57.7	2.08	0.22	0.01	0.02	0.01	0.01	0.01	0.01	44.7	5	24	1100	130	10
1117	12.2	29.6	8.8	5	2.42	1.8	0.01	0.27	0.3	0.15	32.7	5	85	210	300	16
1118	1.18	59.5	1.04	0.26	0.01	0.01	0.01	0.01	0.01	0.01	42.1	5	10	2220	140	11
1119	0.67	59.3	1.14	0.27	0.09	0.01	0.01	0.01	0.01	0.01	44.4	5	16	1260	160	11
1120	10.1	46	2.32	1.12	0.61	0.12	0.01	0.02	0.01	0.09	37.7	5	20	1600	150	9
1121	2.22	55	3.27	0.28	0.01	0.03	0.01	0.01	0.01	0.1	42	5	15	2050	370	9
1122	5.75	53.4	1.95	0.44	0.3	0.01	0.01	0.03	0.01	0.01	39.9	5	113	1300	100	10
1123	5.92	53	1.08	0.54	0.12	0.09	0.01	0.01	0.01	0.01	39.4	5	13	1720	300	12
1124	2.09	30.2	20.1	0.64	0.93	0.01	0.01	0.1	0.03	0.01	46.5	18	58	70	50	7
1125	5.59	48.6	5.1	1.08	0.26	0.17	0.01	0.01	0.02	0.01	38.6	5	16	1290	180	9
1126	20	30.9	3.21	5	0.95	0.99	0.39	0.04	0.01	0.01	23.7	5	17	1020	150	8
1127	2.67	55.9	0.76	0.66	0.31	0.18	0.01	0.01	0.02	0.01	41	5	144	2600	250	12
1128	1.05	36.2	15.6	0.51	0.94	0.06	0.01	0.19	0.03	0.01	45.3	5	40	110	80	16
1129	0.3	58.2	2.14	0.12	0.01	0.01	0.01	0.01	0.01	0.01	43.3	5	22	1500	120	10
1130	0.81	59.8	0.91	0.22	0.02	0.01	0.01	0.01	0.01	0.01	42.3	5	12	820	260	10
1131	3.12	56.5	0.26	0.76	0.28	0.22	0.01	0.02	0.04	0.03	40.4	5	39	1700	610	15
1132	6.25	50.5	5.34	1.23	0.33	0.13	0.01	0.02	0.02	0.01	39.7	5	16	1080	130	10
1133	4.18	44.5	9.01	0.95	0.44	0.27	0.01	0.03	0.05	0.02	39.8	5	31	160	120	10
1134	0.77	51.7	6.16	0.22	0.19	0.03	0.01	0.06	0.01	0.01	44.6	5	21	630	180	8
1135	7.43	51.1	4.07	0.62	0.45	0.01	0.01	0.04	0.01	0.03	44	5	14	400	80	10
1136	1.15	48	8.44	0.57	0.56	0.01	0.01	0.27	0.01	0.01	43.1	5	16	130	90	10
1137	10.6	40	9.12	1.39	1.1	0.68	0.01	0.04	0.13	0.12	29.5	5	18	270	150	10

1138	7.77	46.2	7.34	1.18	1.05	0.14	0.01	0.05	0.08	0.04	41.1	5	12	370	70	9
1139	0.55	53.5	5.38	0.2	0.05	0.03	0.01	0.01	0.01	0.01	44.2	5	14	160	90	10
1140	4.05	50.5	3.14	1.1	1.01	0.27	0.01	0.02	0.09	0.03	38.5	5	16	380	110	12
1141	3.38	54.4	2.99	0.23	0.4	0.03	0.01	0.03	0.01	0.04	40.6	5	24	180	90	10
1142	4.74	44.6	11.4	0.22	0.23	0.06	0.01	0.06	0.01	0.01	42.7	5	32	120	120	8
1143	20	25.6	5.49	5	3.39	0.79	0.33	0.03	0.27	0.03	16.7	10	54	1280	450	21
1144	9.13	45.5	2.35	2.48	0.46	0.38	0.16	0.02	0.15	0.08	36.2	5	25	1650	180	12
1145	4.92	40.9	9.4	0.4	0.63	0.06	0.01	0.19	0.02	0.02	41.3	5	11	120	90	9
1146	1.42	59.5	0.49	0.31	0.08	0.02	0.01	0.01	0.01	0.01	42.5	5	12	2850	260	10
1147	2.27	58.7	1.11	0.34	0.05	0.01	0.01	0.01	0.01	0.01	42.2	5	11	2520	220	10
1148	20	32.2	16.2	0.38	0.73	0.01	0.01	0.02	0.01	0.01	31	5	23	490	60	10
1149	0.63	30.2	20	0.29	0.53	0.02	0.01	0.08	0.01	0.01	47	5	12	50	50	7
1150	1.47	29.4	21.3	0.37	0.48	0.01	0.01	0.05	0.01	0.01	47.7	5	30	50	80	6
1151	8.64	49.3	1.88	0.59	0.4	0.04	0.01	0.02	0.01	0.01	36.6	68	460	1630	160	10
1152	2.18	55.7	3.12	0.57	0.3	0.01	0.01	0.01	0.01	0.05	45.3	16	36	180	100	11
1153	4.8	52.9	3.78	0.51	0.41	0.01	0.01	0.02	0.01	0.02	41.4	34	41	1150	90	12
1154	12.8	37.1	9.94	1.81	1.42	0.7	0.07	0.11	0.02	0.01	30.8	5	85	740	90	7
1155	5.41	37.3	15.7	0.54	0.73	0.03	0.01	0.06	0.01	0.01	47.4	29	115	110	70	8
1156	2.28	29.4	21.5	0.37	0.48	0.01	0.01	0.06	0.01	0.01	47.1	5	10	60	40	6
1157	0.26	44.2	10.7	0.11	0.15	0.01	0.01	0.03	0.02	0.01	44.1	5	12	100	80	8
1158	16.2	32.7	16.1	0.9	0.5	0.45	0.01	0.02	0.09	0.01	29.3	5	14	310	180	8
1159	6.5	37.3	14.2	0.9	1.07	0.01	0.01	0.06	0.14	0.01	40.9	160	330	300	80	12
1160	1.17	58.1	1.93	0.31	0.18	0.05	0.01	0.02	0.01	0.01	42.5	5	39	140	100	10
1161	2.21	55.8	2.03	0.51	0.39	0.06	0.01	0.02	0.02	0.01	40	5	22	920	160	12
1162	0.65	54	4.21	0.29	0.29	0.1	0.01	0.03	0.02	0.01	42.8	5	17	130	90	8
1163	2.67	56.1	1.45	0.7	0.51	0.06	0.04	0.03	0.01	0.02	41.4	36	800	1550	110	12
1164	2.53	52.3	4.69	0.51	0.45	0.27	0.01	0.04	0.03	0.01	40.3	5	13	170	100	10
1165	2.27	56.5	1.97	0.42	0.46	0.14	0.01	0.02	0.01	0.01	41.5	16	22	180	110	9
1166	1.5	50.7	5.45	0.32	0.1	0.14	0.01	0.01	0.01	0.04	42.5	10	11	1370	170	8
1167	1.49	43	11.9	0.18	0.19	0.01	0.01	0.02	0.01	0.01	43	11	54	820	80	10
1168	4.29	56.7	2.65	0.35	0.09	0.05	0.01	0.02	0.01	0.01	39.7	5	12	580	150	10
1169	11.6	30.5	17.3	2.66	1.15	0.33	0.24	0.05	0.19	0.01	28	5	20	140	110	10
1170	4.54	45.6	8.27	0.73	0.81	0.29	0.01	0.04	0.03	0.01	40.4	5	19	210	150	10
1171	2.48	55.6	1.14	0.64	0.6	0.1	0.01	0.02	0.02	0.05	41.2	5	13	1120	150	12
1172	11	31.5	15.5	0.95	0.64	0.38	0.01	0.17	0.01	0.01	37.9	5	24	130	90	14
1173	4.6	51.5	3.41	1.15	0.8	0.06	0.01	0.02	0.01	0.05	41.5	5	22	2170	130	12
1174	7.67	29.8	17.4	3.04	1.96	0.94	0.01	0.16	0.22	0.01	36.7	5	10	90	230	10
1175	16.2	25.8	12.3	5	2.83	1.74	0.01	0.17	0.36	0.06	32.5	5	10	200	320	8
1176	0.6	54.5	4.5	0.25	0.09	0.01	0.01	0.01	0.01	0.01	43.9	5	8	250	120	8
1177	9.76	42.1	2.46	2.96	0.95	0.89	0.13	0.02	0.02	0.01	34.8	5	10	1960	410	8
1178	12.2	29.7	16.7	1.25	1.37	0.54	0.01	0.12	0.1	0.18	38.7	5	14	150	130	22
1179	5.13	28.3	18.3	1.67	2.65	0.49	0.01	0.15	0.21	0.01	42.3	5	23	80	150	68
1180	3.87	42.1	11.2	0.45	0.24	0.18	0.01	0.03	0.01	0.01	42	28	78	140	100	13
1181	12.8	27.6	22.1	0.48	1.45	0.01	0.01	0.11	0.01	0.01	40.6	5	12	70	70	8
1182	0.86	29.9	20.3	0.51	0.56	0.03	0.01	0.06	0.01	0.01	46.3	5	10	40	50	6
1183	0.22	30.3	20.3	0.24	0.77	0.01	0.01	0.09	0.01	0.01	47.9	5	14	90	60	10
1184	0.69	59.9	1.07	0.21	0.02	0.01	0.01	0.02	0.01	0.01	43.3	5	10	750	130	10
1185	2.22	55.9	1.57	0.43	0.22	0.08	0.01	0.19	0.01	0.01	42.1	5	12	100	130	16
1186	20	30.5	3.83	1.38	0.83	0.31	0.01	0.16	0.08	0.01	24.9	5	10	120	180	8
1187	20	26	22.9	0.58	1.14	0.29	0.01	0.1	0.08	0.01	37.2	5	11	60	60	3
1188	2.69	29.3	20.7	1	0.83	0.01	0.01	0.08	0.02	0.01	45.7	5	8	40	50	6
1189	11.1	29.1	14.3	2.43	1.55	1.13	0.01	0.2	0.15	0.13	38.3	5	8	160	190	16
1190	20	24.5	0.5	1.07	0.17	0.17	0.01	0.16	0.02	0.01	11.8	5	6	50	120	3
1191	16	37.7	6.51	2.37	1.77	0.04	0.01	0.05	0.12	0.09	33.2	78	720	340	130	14
1192	20	31.7	0.2	0.51	0.1	0.05	0.01	0.16	0.01	0.01	20.3	5	7	60	50	3
1193	20	25.5	1.33	5	2.65	0.78	0.28	0.02	0.16	0.03	3.4	5	66	820	820	24

1194	5.7	31.5	16.1	1.38	2.45	0.4	0.01	0.22	0.11	0.05	40.1	5	1680	130	150	22
1195	7.38	40.5	11.7	1.11	1.57	0.01	0.01	0.09	0.02	0.01	43.7	5	44	140	130	21
1196	1.81	32.7	16.2	1.35	2.2	0.01	0.01	0.22	0.03	0.01	45.6	5	11	100	70	10
1197	20	25.6	11.2	2.43	0.43	1.17	0.01	0.14	0.13	0.01	27	5	10	90	220	6
1198	4.48	44.2	9.72	0.7	0.9	0.28	0.01	0.03	0.04	0.01	38.9	5	22	180	150	6
1199	3.41	31.3	18.4	1.13	1.57	0.02	0.01	0.14	0.01	0.01	47.3	5	11	90	70	20
1200	4.38	31.1	18.4	1.46	2.04	0.01	0.01	0.17	0.01	0.01	43.9	5	12	90	60	8
1201	3.9	45	7.14	1.5	0.45	0.84	0.01	0.21	0.08	0.01	34.3	5	21	110	200	9
1202	4.55	49.1	4.98	0.73	0.6	0.05	0.01	0.02	0.03	0.01	38.1	5	19	1100	100	10
1203	3.08	28.8	20.8	1.4	1.95	0.01	0.01	0.14	0.01	0.01	47.9	5	10	80	50	7
1204	6.76	40.3	8.45	0.85	1.15	0.32	0.01	0.25	0.09	0.02	35.7	5	12	120	260	22
1205	8.62	32.5	15.3	0.13	1.21	0.01	0.01	0.29	0.01	0.01	40.8	5	10	110	140	24
1206	0.14	56.3	3.67	0.18	0.01	0.02	0.01	0.01	0.01	0.01	31.4	5	10	140	80	8
1207	3.9	50.9	5.52	0.27	0.07	0.01	0.01	0.01	0.01	0.04	34.5	5	15	730	100	8
1208	1.77	57.6	1.39	0.4	0.07	0.07	0.01	0.01	0.01	0.01	36.1	5	10	1490	220	10
1209	3.21	54.4	3.27	0.73	0.46	0.1	0.01	0.02	0.02	0.01	38	5	22	290	130	10
1210	0.91	52.6	5.52	0.17	0.01	0.01	0.01	0.01	0.01	0.01	34.9	5	12	210	120	8
1211	0.01	57.1	2.91	0.1	0.02	0.01	0.01	0.01	0.01	0.01	38	5	10	1450	80	9
1212	0.61	51.2	6.7	0.13	0.01	0.01	0.01	0.01	0.01	0.01	33.9	5	12	1020	80	8
1213	4.07	47.4	6.8	0.39	0.29	0.19	0.01	0.02	0.01	0.01	35.1	5	24	780	130	7
1214	12.7	30.9	14.2	1.95	2.1	0.05	0.01	0.18	0.04	0.01	36.8	5	14	120	140	12
1215	20	24.5	15.7	5	4.48	0.03	0.01	0.15	0.25	0.14	24.8	5	36	90	70	13
1216	13.8	36.1	11.9	0.57	0.91	0.01	0.01	0.21	0.02	0.28	35.7	17	18	140	70	18
1217	2.28	43.4	10.4	0.69	0.83	0.01	0.01	0.24	0.05	0.01	41.1	5	10	90	140	10
1218	6.79	31.2	16.8	1.53	1.65	0.3	0.01	0.2	0.1	0.01	40.1	5	37	150	290	12
1219	0.37	52.4	5.73	0.11	0.01	0.01	0.01	0.01	0.01	0.01	43.3	5	13	900	110	8
1220	2.17	51.5	5.6	0.35	0.18	0.16	0.01	0.01	0.01	0.01	38.4	5	24	800	150	7
1221	7.98	45.8	3.94	1.58	1.39	0.24	0.01	0.04	0.03	0.07	36.5	11	260	980	200	9
1222	8.2	48.4	6.98	0.89	0.17	0.07	0.01	0.01	0.01	0.03	33.8	5	16	880	230	8
1223	6.45	32.5	15.8	1.36	1.79	0.05	0.01	0.13	0.03	0.01	41.1	5	32	190	220	8
1224	7.53	28.6	19	1.42	0.96	0.7	0.01	0.11	0.1	0.13	37.1	5	58	100	280	8
1225	3.15	29.7	20.6	0.52	0.86	0.18	0.01	0.13	0.04	0.01	45.7	5	85	80	80	8
1226	3.24	30.9	19.4	0.85	0.99	0.01	0.01	0.13	0.07	0.01	45.3	5	12	110	120	8
1227	5.17	46.4	7.86	0.28	0.25	0.01	0.01	0.03	0.01	0.05	36.3	5	17	910	170	6
1228	20	17.4	3.3	5	3.69	1.75	0.01	0.1	0.9	0.12	12.1	5	12	230	2000	9
1229	10.6	29.2	21.2	0.91	1.32	0.08	0.01	0.05	0.06	0.01	36.8	20	400	130	140	11
1230	0.19	53.1	5.37	0.12	0.4	0.01	0.01	0.02	0.01	0.01	38.7	5	15	110	100	7
1231	20	27.2	0.69	2.25	0.14	1.06	0.01	0.1	0.07	0.03	15.3	5	8	100	190	6
1232	0.73	32.5	18.7	0.19	0.97	0.01	0.01	0.12	0.01	0.01	47.5	5	18	70	80	6
1233	1.31	33.5	17.7	0.51	1.1	0.01	0.01	0.17	0.02	0.01	44.6	5	11	90	90	9
1234	1.98	56.7	1.36	0.43	0.44	0.01	0.01	0.01	0.02	0.02	40	60	170	2020	130	12
1235	20	26.2	15.4	3.06	3.68	0.01	0.01	0.08	0.21	0.07	14.6	5	29	400	80	8
1236	4.78	40	10.5	0.49	1.36	0.01	0.01	0.22	0.01	0.01	38.4	14	310	80	160	10
1237	2.89	28.7	22	0.63	1.21	0.01	0.01	0.1	0.01	0.01	46.8	5	10	80	50	6
1238	1.51	58.9	0.9	0.24	0.11	0.01	0.01	0.01	0.01	0.01	37.1	5	14	1470	120	8
1239	2.53	51.4	5.1	0.55	0.26	0.27	0.01	0.02	0.03	0.01	36.5	5	22	340	170	10
1240	7.39	46	5.64	1.13	1.21	0.13	0.01	0.02	0.08	0.01	37.9	5	30	600	250	14
1241	0.53	54.2	5.05	0.17	0.11	0.03	0.01	0.03	0.01	0.01	39	5	17	290	190	7
1242	9.27	40.8	7.59	1.98	1.22	0.85	0.01	0.03	0.09	0.01	31	12	47	760	250	18
1243	6.99	31.1	20.3	0.69	1.02	0.02	0.01	0.05	0.06	0.01	40.2	5	37	110	80	14
1244	11.6	40.2	6.18	2.52	2.56	0.25	0.01	0.05	0.14	0.01	35	5	30	540	180	9
1245	4.67	52	2.58	1.04	0.84	0.09	0.01	0.03	0.01	0.04	38.9	14	150	1090	140	11
1246	1.37	52.3	5.47	0.35	0.1	0.13	0.01	0.02	0.01	0.07	36.8	5	15	800	210	7
1247	1.97	46.2	10	0.27	0.18	0.01	0.01	0.02	0.01	0.01	38.7	5	18	650	130	6
1248	1.1	55	4.24	0.38	0.14	0.02	0.01	0.04	0.02	0.01	39.5	5	36	100	90	12
1249	0.29	56.7	3.74	0.14	0.01	0.01	0.01	0.02	0.01	0.01	31.8	5	16	460	160	8

1250	0.52	56	4.06	0.15	0.12	0.01	0.01	0.02	0.01	0.01	38	5	18	320	150	6
1251	5.59	48.1	4.71	1.24	1.12	0.07	0.01	0.03	0.09	0.01	35.5	5	25	580	220	14
1252	0.68	55.2	4.37	0.16	0.09	0.01	0.01	0.02	0.01	0.01	35.3	10	18	390	130	8
1253	10.8	28.7	21.8	1.44	0.79	0.01	0.01	0.03	0.1	0.01	33.9	5	26	160	70	14
1254	7.79	42.2	8.17	2.54	1.65	0.5	0.01	0.04	0.14	0.01	33.5	5	18	150	200	13
1255	5.69	43.6	8.19	1.03	0.82	0.52	0.01	0.02	0.08	0.02	34.8	5	42	1000	560	12
1256	10.5	33.6	18.6	1.41	1.15	0.01	0.01	0.09	0.07	0.01	37.3	5	425	140	100	10
808	6.55	50.4	5.79	0.44	0.28	0	0	0.02	0	0.08	39.4	5	12	310	130	7
809	0.76	50.8	7.03	0.23	0.11	0	0	0.02	0	0.08	43	5	12	200	140	6
810	3.9	54.1	1.91	0.74	0.33	0.33	0	0.01	0.01	0.09	38.7	5	26	750	210	10
811	2.26	55.2	4.28	0.19	0.03	0.04	0	0.01	0	0.08	39.8	5	13	350	160	7
812	1.94	48.4	8.52	0.23	0.11	0.08	0	0.01	0	0.08	41.9	5	14	290	220	8
813	2.48	47.7	8.91	3.89	0.16	0.21	0	0.02	0.02	0.09	41.2	5	18	350	160	6
814	0.92	34.9	17.5	0.25	0.45	0	0	0.03	0.01	0.08	45.2	5	18	220	100	8
815	1.24	55.1	4.29	0.33	0.12	0.04	0	0.02	0	0.09	42.9	5	20	470	200	9
816	1.25	29.9	20.6	0.35	0.31	0	0	0.05	0.02	0.09	45.2	5	12	60	70	6
817	1.29	30.7	20.9	0.06	0.09	0	0	0.05	0	0.09	44.8	5	21	140	300	7
818A	0.55	55.6	4.46	0.22	0.06	0.04	0	0.01	0	0.08	43.2	5	18	160	210	7
818B	2.46	54.7	2.44	0.44	0.61	0.08	0	0.02	0.01	0.09	41.3	5	49	210	180	14
819	0.25	58.3	2.08	0.21	0.13	0	0	0.01	0	0.09	43	5	12	1650	160	8
820	1.43	54.4	5.31	0.33	0.24	0.04	0	0.02	0	0.09	43.2	5	20	480	180	9
821	3.19	50.6	3.7	0.89	1.28	0.13	0	0.05	0.06	0.11	39	5	26	600	230	14
822	0.82	54.8	4.3	0.27	0.25	0.02	0	0.01	0	0.09	43.2	5	20	620	330	7
823	3.39	56.3	4.65	3.6	0.13	0.05	0	0.05	0	0.09	41.1	5	14	120	170	16
824	0.89	54.7	4.18	0.27	0.1	0.01	0	0.01	0	0.09	43.4	5	16	380	170	8
825	20	34.4	6.24	0.49	0.32	0	0	0.05	0	0.08	29.4	5	12	200	130	5
826	1.54	55.6	6.21	0.15	0.52	0	0	0.05	0	0.09	43	5	12	570	170	7
827	4.2	29.3	20.6	0.17	0.12	0	0	0.04	0	0.08	42.9	5	14	100	90	7
828	9.98	28	21.3	2.83	0.16	0	0	0.03	0	0.09	37.1	5	18	70	60	6
829	0.12	30.1	21.1	0.2	0.33	0	0	0.04	0.02	0.08	46.4	5	15	60	70	6
830	1.59	55.4	2.56	0.47	0.26	0.25	0	0.01	0.02	0.09	42.3	5	17	780	90	8
831	7.2	49.8	2.69	0.71	0.13	0	0.01	0.03	0	0.09	38	5	12	140	90	7
832	20	26.2	6.57	5.9	4.99	0.81	1.03	0.08	0.34	0.16	23.1	5	96	240	510	60
1257	3.12	31	18	0.67	0.61	0.28	0	0.13	0.05	0.12	50.7	5	10	70	130	10
1258	3.14	48	5.7	0.6	0.79	0.04	0	0.02	0.05	0.08	39.5	5	24	380	140	5
1259	0.83	56	3.56	0.18	0.13	0.01	0	0.03	0	0.09	42.7	5	10	320	120	8
1260	5.14	48.5	5.52	0.12	0.02	0	0	0.02	0	0.09	38.9	5	12	100	530	3
1261	1.73	44.7	9.35	0.37	0.13	0.1	0	0.04	0.01	0.09	43.5	5	16	400	250	3
1262	3.65	31.7	18.5	0.1	0.3	0	0	0.03	0	0.08	44	5	10	90	90	34
1263	1.42	52.8	4.91	0.22	0.16	0.05	0	0.03	0	0.09	42.3	5	10	290	130	6
1264	1.95	29.3	19.5	0.71	1.37	0	0	0.1	0.09	0.09	51	5	12	80	80	15
1265	0.07	51.5	6.57	0.12	0	0	0	0.01	0	0.08	45.8	5	23	160	110	6
1266	1.06	53.8	4.41	0.3	0.11	0.07	0	0.03	0	0.09	44.8	5	13	200	130	5
1267	3.23	36.8	14.2	0.46	0.48	0.22	0	0.04	0.02	0.1	44.3	5	40	190	130	8
1268	0.26	29.9	20.3	0.15	0.65	0	0	0.07	0	0.08	48.4	5	42	60	80	5
1269	1.64	52.3	4.49	0.55	0.3	0.15	0	0.03	0.01	0.09	42.9	5	16	220	170	6
1270	4.42	31.9	17.8	0.52	0.48	0.13	0	0.04	0.03	0.1	42.8	5	10	60	90	6
1271	1.54	51.9	6.99	0.24	0.12	0.06	0	0.03	0	0.09	42.6	5	8	410	150	7
1272	2.01	48.1	7.96	0.21	0.12	0.03	0	0.02	0	0.1	43.6	5	8	220	140	6
1273	1.36	52.7	5.29	0.24	0.16	0.02	0	0.03	0	0.09	42.5	5	14	600	250	5
1274	20	24.3	19	0.5	0.96	0.04	0	0.04	0.03	0.1	10.7	5	38	90	60	5
1275	3.22	44.7	8.54	0.21	0.27	0.05	0	0.02	0	0.09	43.7	5	23	250	150	10
1276	2.7	51.1	6	0.19	0.13	0.02	0	0.02	0	0.09	43.1	5	20	420	220	5
1277	0.8	42.5	11.6	0.14	0.04	0	0	0.04	0	0.08	44.5	5	46	110	110	6
1278	0.6	52.7	5.77	0.14	0.07	0	0	0.01	0	0.08	43.4	5	7	180	110	5
1279	0.7	52.6	5.99	0.34	0.06	0.06	0	0.02	0	0.09	43.8	5	6	200	140	6

1280	2.94	36.9	14.9	0.29	0.4	0	0	0.09	0	0.08	48.2	5	44	390	70	13
1281	0.71	29.7	19.6	0.14	0.69	0	0	0.07	0	0.07	46.7	5	100	70	230	47
1282	20	24.3	24.3	0.33	2.89	0	0	0.19	0.04	0.08	32.6	5	32	60	60	3
1283	3.43	44	11.5	0.14	0.18	0	0	0.03	0	0.09	40.1	5	16	80	90	6
1284	1.73	52.1	5.96	0.26	0.13	0.02	0	0.02	0.01	0.09	42.6	5	13	600	160	5
1285	2.23	51.3	5.41	0.28	0.16	0.04	0	0.02	0	0.09	42.1	5	18	260	150	5
1286	5.13	48.2	5.6	0.87	0.81	0	0	0.1	0.01	0.1	40.8	5	10	150	90	15
1287	3.9	52.4	3.47	0.84	0.63	0.13	0	0.03	0.06	0.12	41.1	5	44	780	190	8
1288	6.63	28.4	21.4	0.24	0.18	0	0	0.05	0.01	0.08	42.2	5	26	70	70	3
1289	20	8.42	18.2	5.4	10	2	0	0.1	1.02	0.12	2.8	5	62	60	390	23
1290	6.12	47.3	3.66	2.42	0.55	0.09	0.05	0.02	0.03	0.09	37.9	5	18	1550	110	6
1291	1.56	58.2	1	0.39	0.05	0.05	0	0.01	0.01	0.09	43.1	5	8	1750	110	5
1292	2.26	56.6	1.28	0.41	0.34	0	0	0.02	0.02	0.09	41.6	5	8	590	80	5
1293	2.41	55.8	0.9	0.55	0.1	0.14	0	0.01	0.02	0.1	41.7	5	9	1220	450	6
1294	1.84	43	9.97	0.39	0.46	0.09	0	0.04	0.02	0.1	42.9	5	13	90	110	3
1295	0.44	52	5.83	0.17	0	0	0	0.01	0	0.09	43.6	5	10	1150	120	6
1296	1.38	52.1	4.62	0.22	0.03	0	0	0.01	0	0.11	39.2	5	6	1070	100	5
1297	0.68	31.2	19.4	0.11	0.55	0	0	0.03	0.02	0.07	46.4	5	11	270	90	6
1298	2.23	47.7	8.52	0.25	0.18	0.07	0	0.02	0.01	0.1	43.3	5	36	840	80	5
1299	20	26.2	21.1	0.38	1.11	0.11	0	0.1	0	0.08	45	5	11	110	90	5
1300	2.1	35	16.6	0.2	0.33	0.03	0	0.03	0.01	0.09	43.8	5	26	90	70	5
1301	1.21	46.4	9.84	0.27	0.24	0.05	0	0.02	0.03	0.11	42.9	5	18	250	80	5
1302	0.18	53.4	4.93	0.15	0.69	0	0	0.02	0	0.08	42	5	37	250	140	6
1303	2.42	53.1	5.7	0.12	0.13	0	0	0.02	0	0.11	41.6	5	8	220	80	6
1304	0.34	49.1	7.01	0.18	0.3	0.03	0	0.2	0	0.09	42.1	5	12	160	90	6
1305	2.65	50.9	4.66	0.37	0.3	0.16	0	0.02	0.02	0.11	38.7	5	10	270	100	8
1306	6.71	52.5	2.54	0.48	0.15	0	0	0.03	0	0.1	38.1	5	9	110	90	6
1307	3.01	50.5	5.31	0.56	0.25	0	0	0.03	0.01	0.1	35.7	5	8	240	70	6
1308	0.62	56.8	2.62	0.2	0.04	0	0	0.03	0	0.09	42.8	5	10	120	100	7
1309	0.68	29.5	19.5	0.42	1.03	0	0	0.07	0	0.08	45.9	5	15	30	40	5
1310	0.79	46.2	10.3	0.27	0.27	0	0	0.03	0.01	0.09	42.9	5	16	200	70	6
1311	1.39	30	20.2	0.28	0.16	0	0	0.05	0	0.07	40.2	5	20	140	90	5
1312	20	24	24.7	0.3	0.98	0	0	0.13	0.02	0.1	12.9	5	30	80	70	3
1313	1.6	34.1	16.9	0.24	0.65	0	0	0.19	0.01	0.08	45.5	5	14	70	60	6
1314	7.58	43.4	8.16	0.28	1.73	0	0	0.15	0.01	0.11	32.2	5	20	200	60	6
1315	6.16	46.8	7.14	0.43	0.51	0	0	0.05	0.02	0.14	41	5	30	110	110	6
1316	10.5	29.5	20.7	0.34	0.37	0.13	0	0.03	0.03	0.12	38.2	5	31	210	370	6
1317	4.1	31.1	19.3	0.36	0.39	0.04	0	0.03	0	0.09	47.6	5	19	190	70	10
1318	1.94	50.6	7.47	0.22	0.21	0.03	0	0.03	0	0.09	41.7	5	12	560	140	6
1319	3.01	30.5	18.4	0.49	0.96	0.11	0	0.19	0.02	0.1	49.3	5	10	60	100	10
1320	9.36	27	22.1	1.53	1.54	0.12	0	0.14	0.08	0.14	53	5	26	80	90	8
1321	1.13	49.7	7.48	0.2	0.08	0.02	0	0.02	0	0.08	41.4	5	12	210	100	6
1322	2.63	49.3	7.35	0.53	0.7	0.03	0	0.02	0.03	0.1	40	5	28	430	130	6
1323	4.77	51	4.16	0.81	0.75	0.13	0	0.02	0.02	0.1	39.3	5	12	360	310	8
1324	6.5	42	8.37	1.23	0.96	0.45	0	0.04	0.03	0.09	40	5	40	190	230	7
1325	1.96	52	4.01	0.49	0.2	0.12	0	0.01	0.01	0.1	41.7	5	10	1770	110	6
1326	2.61	50.8	5.29	0.63	0.24	0.29	0	0.01	0.02	0.09	42.4	5	14	1310	210	6
1327	0.7	50	6.12	0.15	0.2	0.01	0	0.01	0	0.09	42.3	5	8	560	120	6
1328	1.6	48.7	6.64	0.24	0.02	0.06	0	0.01	0.01	0.09	42	5	9	750	90	5
1329	3.92	46.3	8.17	0.64	0.57	0.25	0	0.05	0.03	0.08	41	5	13	160	80	6
1330	3.37	45.7	7.29	0.72	0.37	0.43	0	0.03	0.07	0.09	39.3	5	17	190	100	5
1331	6.24	49.7	4.21	0.95	0.48	0.08	0	0.03	0.03	0.15	40	46	40	310	120	10
1332	1.81	29.7	20.6	0.26	0.33	0	0	0.06	0	0.08	46.8	18	146	110	50	5
1333	0.65	36.4	15.8	0.16	0.52	0	0	0.2	0	0.1	44.9	5	6	100	70	9
1334	2.4	33	18.1	0.25	0.46	0	0	0.08	0	0.08	45.5	5	13	280	60	6
1335	0.86	54.4	7.77	0.22	0.16	0.01	0	0.03	0	0.09	43.2	5	10	170	90	6

1336	20	30.7	4.75	5	1.44	0.72	0.44	0.03	0.16	0.14	21.2	5	24	580	420	16
1337	20	33	2.34	4.31	1.79	0.44	0.59	0.04	0.16	0.1	19.1	5	36	670	300	9
1338	20	19.9	1.35	5	0.29	1.82	0.67	0.01	0.01	0.09	8.5	5	17	560	960	3
1339	20	39.7	0.9	3.78	0.31	1.21	0.33	0.01	0.01	0.09	32.4	5	22	1350	320	5
1340	2.68	48	7.97	0.47	0.26	0.12	0	0.02	0.03	0.07	40.1	5	14	540	140	9
1341	1.68	53.4	4.54	0.34	0.15	0.09	0	0.02	0	0.09	43	5	12	960	100	6
1342	3.41	50.4	4.74	0.55	0.31	0.23	0	0.03	0.03	0.08	42.1	5	20	190	110	6
1343	0.98	48.5	7.33	0.27	0.13	0.02	0	0.03	0	0.08	45.3	5	42	130	110	6
1344	1.96	28.9	20.6	0.51	1.2	0.09	0	0.18	0.03	0.1	47.9	5	10	60	70	22
1345	8.54	28.9	20.5	1.45	0.64	0.42	0	0.09	0.07	0.08	42.7	5	12	150	180	6
1346	2.23	50.2	9.2	0.45	0.19	0.06	0	0.03	0.01	0.09	43.1	5	20	120	120	6
1347	11.7	25.7	21.7	3.15	0.97	1.34	0.02	0.08	0.26	0.08	30	5	510	100	380	5
1348	4.54	38.7	13.1	0.85	0.46	0.31	0	0.15	0.05	0.08	41.6	5	18	110	120	6
1349	3.55	50.1	7.05	0.6	0.34	0.22	0	0.06	0.03	0.12	40.7	5	15	210	80	8
1350	1.34	35.1	15.9	0.32	0.83	0.08	0	0.17	0.01	0.1	44.5	5	14	70	70	6
1351	0.85	59.6	4.18	0.16	0	0	0	0.02	0	0.09	41.4	5	6	1210	260	7
1352	9.96	40.2	10.6	0.48	0.32	0.2	0	0.02	0.03	0.09	32	5	10	310	100	6
1353	3.12	44.1	10.9	0.24	0.21	0	0	0.02	0	0.08	45.4	5	20	620	90	6
1354	20	3.66	1.16	5	0.72	1.82	1.77	0.03	0.15	0.1	0.4	19	16	460	2250	3
1355	20	32.3	9.95	3.62	1.37	0.89	0.22	0.04	0.18	0.08	29.9	5	28	580	490	12
1356	2.9	52.9	4.61	0.62	0.24	0.17	0	0.03	0.15	0.02	43.4	5	20	220	120	8
1357	4.13	47.1	4.6	1.04	0.83	0.08	0	0.02	0.07	0.1	35	5	34	500	130	10
1358	2.09	33.5	16.1	0.34	0.24	0	0	0.02	0	0.08	45.4	5	18	190	60	6
1359	1.86	56.1	2.72	0.23	0.02	0	0	0.01	0	0.09	46.6	5	5	1620	120	6
1360	6.62	46.4	8.56	0.33	0.12	0.09	0	0.01	0.02	0.12	41.2	5	12	640	100	6
1361	1.78	29.3	20.2	0.57	0.94	0.11	0	0.16	0.02	0.1	59.1	5	14	60	80	6
1362	3.94	54.1	3.62	0.79	0.29	0	0	0.03	0.01	0.09	43.5	5	9	790	110	6
1363	1.4	52.8	4.43	0.4	0	0.15	0	0.01	0.01	0.1	41.1	5	48	520	210	6
1364	7.16	36.4	10	0.88	2.43	0.39	0.39	0.08	0.07	0.08	36.7	5	29700	310	360	38
1365	4.88	42.3	11.7	0.58	0.31	0.12	0	0.02	0.03	0.12	44.3	5	24	560	140	8
1366	1.47	53.7	4.47	0.29	0.24	0.09	0	0.03	0	0.09	42.1	5	16	520	120	6
1367	2.66	49.2	5.67	0.74	0.48	0.21	0	0.02	0.05	0.09	40.5	5	40	400	160	8
1368	20	19.9	5.31	5	4.4	1.82	0.57	0.07	0.58	0.64	7	19	98	3080	2880	3
1369	1.93	29.6	20.9	0.27	0.2	0	0	0.04	0.01	0.07	43.5	5	10	100	50	5
1370	0.41	29.7	20.7	0.18	0.14	0.04	0	0.03	0	0.07	43.6	5	24	60	90	5
1371	3.32	35.7	16.8	0.68	0.35	0.23	0	0.02	0.05	0.1	40	5	825	250	100	10
1372	0.26	51.4	8.64	0.12	0	0	0	0.01	0	0.08	38.3	5	10	150	80	7
1373	2.15	39.1	13.9	0.47	0.38	0.14	0	0.04	0.03	0.08	45	5	10	250	140	19
1374	7.06	38.1	12.9	0.82	0.59	0.3	0	0.03	0.06	0.13	42.3	5	140	660	220	11
1375	2.51	50	6.49	0.5	0.41	0.13	0	0.02	0.03	0.09	42.6	5	20	500	140	8
1376	1.15	52	5.74	0.3	0.13	0.08	0	0.02	0.01	0.09	42.5	5	18	340	120	15
1377	0.3	37.5	14.6	0.19	0.31	0	0	0.18	0	0.08	44.3	5	12	190	130	8
1378	1.86	49.9	6.85	0.51	0.16	0.24	0	0.03	0.02	0.09	41.4	5	12	190	210	8
1379	3.15	33.8	16	0.51	0.5	0.13	0	0.1	0	0.08	45	5	136	100	160	9
1380	6.27	42.3	8.55	1.18	1.15	0.62	0	0.02	0.11	0.1	35.5	5	22	260	150	6
1381	9.49	39.3	8.22	2.45	0.3	0.55	0.17	0.01	0.06	0.08	35.2	5	14	1150	260	10
1382	3.16	44.1	11.1	0.48	0.17	0	0	0.03	0	0.08	42.9	5	22	90	130	8
1383	0.79	30.3	18.9	0.2	0.12	0	0	0.07	0	0.08	41.5	5	12	90	70	6
1384	1.54	30.6	18.9	0.58	0.93	0.11	0	0.16	0.01	0.15	47.1	5	13	50	130	24
1385	14.7	26	22.6	0.89	1.5	0	0	0.11	0.05	0.08	37.9	5	290	70	80	8
1386	3.43	49.9	8.47	0.55	0.33	0.11	0	0.02	0.01	0.1	41.5	5	54	390	240	26
1387	2.17	52.2	5.49	0.44	0.2	0.1	0	0.02	0.01	0.09	41.5	5	18	410	190	7
1388	6.32	37.3	11.2	0.95	0.71	0.13	0	0.23	0.01	0.09	41.3	5	10	60	120	8
1389	4.68	52.7	2.65	0.54	0.05	0.19	0	0.03	0.01	0.1	38.2	5	10	60	150	8
1390	20	41.7	1.18	0.36	0.04	0.09	0	0.01	0	0.09	31.7	5	10	100	280	7
1391	2.45	29.6	19.7	0.1	0.32	0	0	0.05	0	0.08	44.6	5	12	130	80	6

1392	0.05	30.2	20.2	0.1	0.31	0	0	0.06	0	0.07	45.6	5	11	60	70	6
1393	20	24.5	1.92	0.22	4.44	0	0	0.05	0	0.08	12.2	5	10	40	60	3
1394	12.2	43	4.26	1.4	2.01	0.39	0.04	0.03	0.06	0.09	35.1	5	42	970	150	22
1395	0.67	29.8	19.4	0.22	1.09	0	0	0.08	0	0.08	45.8	5	16	100	110	7
1396	2.57	55.5	3.09	0.38	0.18	0	0	0.03	0	0.11	41.5	5	12	390	140	8
1397	9.62	38.3	6.2	2.85	1.23	0.69	0.55	0.03	0.13	0.14	36	10	60	460	330	18
1398	10.2	49.2	0.56	0.74	0.07	0.14	0	0.02	0.01	0.11	36.7	5	10	90	150	8
1399	20	30.7	3.13	5	3.8	0.94	0.62	0.09	0.3	0.17	27.5	5	39	470	460	14
1400	20	21	4.72	5	5.55	1.44	1.7	0.05	0.64	0.17	11.5	5	82	500	780	36
1401	20	25.9	3.36	5	3.14	1.31	1.18	0.04	0.43	0.19	32.4	5	70	420	490	65
1402	12.5	35.8	10.2	5	1.81	1.57	0.14	0.03	0.14	0.12	36.2	5	54	240	180	6
1403	11.4	28.6	19.1	0.52	0.19	0.01	0	0.06	0	0.09	38.9	5	17	180	390	6
1404	20	25.2	6.09	5	3.83	1.35	0.92	0.04	0.36	0.15	23.5	5	91	350	350	10
1405	8.32	42.7	4.88	2.99	0.94	0.41	0.33	0.03	0.08	0.11	39.7	5	22	470	230	23
1406	14	34.2	4.75	4.38	1.96	0.82	0.52	0.04	0.16	0.13	34.2	22	58	310	240	26
1407	20	26.2	2.89	5	3.8	0.39	1.81	0.09	0.31	0.19	22.4	5	48	510	240	8
1408	20	27.6	3.05	5	2.93	0.47	1.4	0.06	0.29	0.16	24.5	5	44	430	200	65
1409	20	13.5	3.54	5	6.85	0.76	2.44	0.07	0.62	0.21	7	5	99	330	310	69
1410	20	24.1	1.99	5	4.32	0.94	1.12	0.13	0.37	0.15	13.4	5	41	230	260	32
1411	20	30.3	1.9	5	1.88	0.89	0.49	0.09	0.2	0.14	38.1	16	72	390	360	35
1412	20	26.4	4.49	5	4.25	1.6	0.41	0.05	0.39	0.17	23.7	5	36	400	440	42
1413	20	29.8	3.22	5	3.35	0.7	0.97	0.07	0.28	0.15	27.2	5	48	590	250	16
1414	20	28.9	4.46	5	3.33	0.6	0.77	0.04	0.32	0.16	25.9	5	52	580	230	36
1415	20	32.6	1.32	1.99	1.25	0.12	0.17	0.05	0.09	0.11	25.9	5	16	470	120	7
1416	20	17.7	3.36	5	7.73	0.15	3	0.1	0.68	0.27	4.9	5	64	320	130	22
1417	20	9.9	8.83	5	10	2	1.67	0.08	1.3	0.39	5.8	25	7200	70	260	40
1418	1.15	52.9	4.24	0.45	0.38	0.14	0	0.04	0	0.12	42.1	5	50	230	310	18
1419	20	13.2	16.7	5	10	0.02	0	0.19	0.64	0.11	17.2	5	92	110	110	17
1420	2.5	54.1	4.03	0.87	0.29	0.19	0	0.02	0.01	0.11	42.6	5	9	330	150	6
1421	20	30.3	3.37	5	3.47	0.66	1.14	0.04	0.33	0.15	24.6	5	34	540	140	26
1422	20	28.8	3.06	5	3.91	0.86	0.93	0.05	0.4	0.15	24.9	5	132	620	140	37
1423	20	37.7	0.86	0.88	0.18	0.07	0	0.02	0.02	0.1	31.3	5	6	80	100	5
1424	5.83	53	1.96	0.77	0.27	0.05	0	0.04	0.01	0.14	41.1	5	6	80	80	6
1425	2.86	57.4	0.66	0.52	0.06	0.09	0	0.03	0	0.11	41.5	5	6	90	100	6
1426	2.09	32.7	16.4	0.71	0.52	0.15	0	0.07	0.02	0.1	44.3	5	14	70	80	6
1427	8.97	27.4	18.8	0.77	0.7	0.1	0	0.08	0.02	0.1	41.3	5	10	40	50	5
1428	20	28.2	6.81	5	4.62	0.92	0.33	0.06	0.38	0.16	22.8	5	54	380	300	29
1429	11.9	38.8	4.92	3.78	1.69	0.47	0.1	0.05	0.13	0.13	28.2	5	56	430	250	20
1430	20	24.4	3.66	5	5.62	0.47	1.86	0.07	0.36	0.16	10.8	5	94	310	190	20
1431	3.57	54.3	3.05	0.34	0.09	0	0	0.01	0	0.1	41	5	6	140	100	5
1432	9.17	35.7	7.76	2.6	2.5	0.73	0.12	0.02	0.17	0.12	33.5	5	46	540	300	5
1433	20	25.9	6.53	5	3.6	1.06	0.87	0.03	0.35	0.16	16.3	5	95	570	790	71
1434	5.43	29.5	19.2	0.44	1.3	0	0	0.13	0	0.1	43.5	5	18	340	80	6
1435	8.75	40.9	9.87	1.7	1.49	0.33	0	0.06	0.08	0.12	36.6	5	21	390	260	6
1436	2.72	29.7	18.7	0.47	0.91	0.02	0	0.12	0.01	0.09	45.2	5	18	70	70	6
1437	4.54	49.8	5.09	0.83	0.53	0.21	0	0.03	0.06	0.12	37.6	5	14	110	170	6
1438	11.2	37.5	5.51	3.14	2.54	0.21	0.47	0.08	0.16	0.13	30.1	5	31	490	310	12
1439	3.46	52.1	4.24	0.62	0.7	0.04	0	0.03	0.02	0.09	40.8	5	11	450	100	5
1440	6.48	38.6	9.67	2.01	1.71	0.12	0.1	0.14	0.05	0.11	34.3	5	22	130	190	11
1441	20	26.5	5.22	5	2.24	1.08	1.37	0.05	0.16	0.13	16.5	5	42	810	3700	34
1442	20	33.3	3.49	5	1.23	0	1.55	0.03	0.13	0.12	27	5	62	650	120	8
1443	4.81	49.6	4.8	1.06	0.47	0.02	0.14	0.03	0.03	0.12	40.8	5	12	440	140	5
1444	5.93	50.8	3.27	1.15	0.69	0.26	0	0.04	0.03	0.11	38.8	5	14	200	650	6
1445	14.6	33	7.09	4.43	3.62	0.8	0.09	0.04	0.29	0.14	29.6	13	102	500	180	14
1446	8.47	40.3	7.47	2.25	1.55	0.6	0	0.02	0.13	0.41	36.7	5	52	640	230	5
1447	20	27.1	2.22	5	3.75	1.06	1.2	0.06	0.38	0.18	17.2	5	64	290	470	10

1448	9.7	40.6	4.56	2.5	2.01	0.49	0.15	0.04	0.17	0.13	32.9	10	58	730	290	5
1449	0.93	59	0.77	0.37	0.26	0	0	0.02	0	0.1	43.1	5	13	140	100	6
1450	3	55.7	0.84	0.74	0.42	0.09	0	0.02	0.02	0.1	40.7	5	18	90	170	6
1451	20	24.1	5.31	5	3.75	1.27	1.2	0.04	0.38	0.18	10.4	5	51	320	310	16
1452	8.68	40.1	5.57	2.59	2.04	0.67	0.17	0.03	0.2	0.11	33.8	5	45	670	460	5
1453	6.36	45.5	5.11	1.86	0.88	0.26	0.07	0.02	0.07	0.11	39.2	5	34	790	350	10
1454	13.4	36.2	6.16	3.37	2.08	0.37	0.35	0.03	0.19	0.14	31.1	5	48	650	310	50
1455	2.81	44.1	8.21	0.71	0.6	0.17	0	0.03	0.02	0.09	41.8	5	14	290	110	5
1456	12.1	38.6	5.88	3.23	1.43	0.12	0	0.03	0.12	0.11	30.4	5	40	590	550	11
1457	4.08	47.8	5.19	1.04	0.42	0.14	0	0.02	0.03	0.12	41	5	96	660	350	20
1458	5.96	47.4	4.39	1.72	0.99	0.44	0	0.05	0.04	0.11	38.5	5	16	590	140	12
1459	14.2	33	2.8	5	3.12	0.48	0.52	0.05	0.23	0.17	21	5	28	180	240	38
1460	3.12	50.7	4.61	0.87	0.71	0.26	0	0.03	0.03	0.11	40.9	5	12	420	430	10
1461	5.28	28.8	17.8	1.46	1.71	0.02	0	0.18	0.05	0.11	43.7	5	12	50	100	8
1462	8.24	43.3	3.96	2.19	1.71	0.25	0.11	0.03	0.11	0.12	36.7	5	42	730	280	8
1463	6.83	43.7	5.26	1.86	1.36	0.29	0.03	0.02	0.1	0.12	35.8	5	41	780	380	18
1464	20	31.3	4.49	5	4.02	0.6	0.28	0.05	0.29	0.16	23.1	5	72	520	280	18
1465	20	36.6	3.1	1.1	0.63	0.17	0	0.03	0.04	0.13	28.4	5	16	420	3660	7
1466	10.2	50.2	1.71	0.59	0.2	0.02	0	0.03	0	0.12	37.4	5	18	100	190	10
1467	20	24	2.67	5	2.57	2	0.68	0.11	0.6	0.27	5.4	5	38	210	700	32
1468	20	24.1	4.32	5	5.83	0.5	1.9	0.09	0.51	0.2	8.5	5	128	270	270	7
1469	20	27.5	7.09	5	4.12	0.49	0.94	0.06	0.35	0.19	18.6	5	70	530	140	8
1470	16.2	32.6	5.57	5	2.8	0.28	0.83	0.06	0.27	0.18	23	5	24	570	110	30
1471	4.47	46.3	5.2	1.07	0.61	0	0.17	0.02	0.07	0.11	40.7	5	8	590	100	8
1472	13.5	31.9	7.89	4.37	3.36	1.17	0.35	0.03	0.34	0.14	30.2	5	53	610	370	8
1473	13.6	43.3	2.73	1.12	0.46	0.02	0.02	0.02	0.04	0.11	32.8	5	11	160	90	12
1474	7.37	40.9	7.8	1.77	1.03	0.76	0	0.02	0.08	0.11	38.2	5	32	310	380	10
1475	7.98	50.6	2	0.47	0.16	0.01	0	0.03	0	0.1	39.1	5	14	200	1920	10
1476	20	26.4	3.16	5	3.85	0.89	0.61	0.09	0.25	0.18	16.7	11	72	570	320	9
1477	10.4	46.1	1.86	0.92	0.52	0.15	0	0.04	0.01	0.1	33.6	5	44	110	130	12
1478	20	24.1	3.97	5	3.91	0.42	2.36	0.09	0.48	0.22	8.3	5	84	300	330	14
1479	20	24	4.69	5	5.39	0.6	1.57	0.07	0.42	0.24	7.4	5	88	380	260	34
1480	20	29.4	3.48	5	2.14	0.14	1.78	0.05	0.21	0.17	23.4	5	15	190	100	10
1481	20	19	4.12	5	4.09	1.06	3	0.04	0.33	0.18	4.9	5	74	380	900	12
1482	9.02	45.5	4.14	2.5	0.92	0.21	0.28	0.03	0.08	0.15	41.3	5	26	500	170	10
1483	20	27.2	3.14	5	1.15	1.82	0.84	0.04	0.06	0.11	21.3	5	30	570	1240	8
1484	12.2	40.2	4.4	3.04	1.71	0.6	0.25	0.03	0.11	0.11	32.7	5	42	550	310	12
1485	20	30.6	4.44	5	2.29	0.35	0.84	0.05	0.17	0.14	23.1	11	127	520	270	8
1486	20	30.4	2.74	5	2.14	0.7	0.67	0.06	0.21	0.15	21.8	5	40	540	510	10
1487	6.4	47.2	4.59	1.59	1.08	0.35	0	0.03	0.05	0.11	40	5	27	690	290	9
1488	11	39.9	4.62	2.79	1.91	0.53	0.18	0.03	0.12	0.12	32.6	5	34	480	210	7
1489	20	24.1	3.67	5	5.93	0.14	2.42	0.12	0.45	0.24	9.4	5	70	510	80	13
1490	20	24.5	2.7	5	2.58	1.1	0.44	0.04	0.2	0.13	12.8	5	51	260	300	14
1491	8.23	45.4	5.74	1.73	0.62	0.43	0	0.02	0.04	0.11	41.4	5	25	540	270	9
1492	4.07	51.6	4.22	0.84	0.33	0.13	0	0.01	0.02	0.12	41.8	5	30	750	280	8
1493	8.8	42.4	6.43	2.18	1.38	0.62	0	0.03	0.09	0.12	35.5	5	44	580	690	13
1494	3.78	51.7	3.98	0.99	0.37	0.09	0	0.01	0.04	0.11	41	5	32	690	330	9
1495	3.81	49.5	4.69	1.01	0.4	0.1	0	0.01	0.03	0.12	41.7	5	22	650	340	8
1496	3.57	48.5	5.8	0.92	0.47	0.3	0	0.01	0.03	0.1	41.4	5	26	560	420	8
1497	5.03	46.6	4.63	0.98	0.95	0.37	0	0.03	0.02	0.1	39	5	92	760	260	7
1498	16.5	35.5	2.94	3.28	1.51	0.43	0.36	0.05	0.15	0.13	26	5	45	420	190	6
1499	2.61	51.8	4.49	0.63	0.25	0.09	0	0.02	0.01	0.11	43.8	5	36	530	150	8
1500	0.18	43.4	10	0.11	0.04	0	0	0.01	0	0.08	45.3	5	11	140	90	6
1501	0.5	53.2	6.11	0.17	0.05	0.02	0	0.01	0	0.09	43.7	5	13	300	100	8
1502	1.68	29.1	19.7	0.79	1.57	0.06	0	0.1	0.03	0.1	45.2	5	16	70	80	10
1503	2.76	28.9	20.2	0.43	0.9	0.01	0	0.07	0.02	0.09	44.5	5	32	60	70	7

1504	0.19	29.4	20.5	0.12	0.41	0	0	0.03	0	0.08	46.7	5	12	390	50	5
1505	1.25	50.8	9.22	0.42	0.18	0.18	0	0.02	0.01	0.1	42.6	5	14	110	100	7
1506	0.59	35.2	15.8	0.25	0.43	0.07	0	0.03	0.01	0.09	46.9	5	20	170	100	6
1507	5.66	26.7	18.8	1.49	3.71	0.25	0	0.13	0.09	0.1	40.8	5	44	50	120	18
1508	14.1	27.2	19.4	0.58	0.73	0.05	0	0.05	0.03	0.11	34.1	14	51	60	120	8
1509	20	24.2	18.1	5	0.95	1.27	0.14	0.03	0.17	0.11	22.8	5	15	90	920	5
1510	20	24.1	14.2	0.49	0.17	0	0	0.03	0	0.11	11.4	5	8	20	40	3
1511	12.4	46.5	4.85	0.84	0.1	0.05	0	0.02	0.03	0.09	40.4	5	9	460	110	8
1512	4.88	48.4	7.15	0.46	0.08	0.1	0	0.03	0	0.1	44.7	5	13	150	110	7
1513	4.55	51.9	6.09	0.47	0.07	0.06	0	0.02	0	0.11	43.8	5	10	190	140	7
1514	1.18	30.5	18.7	0.21	0.18	0.01	0	0.05	0	0.09	47.5	5	16	60	80	6
1515	1.69	47.8	8.92	0.28	0.34	0.08	0	0.04	0	0.1	44.3	5	40	150	140	7
1516	20	32.6	13.4	0.68	0.27	0.05	0	0.03	0.03	0.11	29.2	5	17	760	240	12
1517	12.9	27.9	20.5	0.12	0	0	0	0.02	0	0.09	38.6	5	48	130	60	6
1518	2.96	28.8	20.4	0.56	0.22	0	0	0.04	0.02	0.11	45	5	14	40	80	5
1519	4.89	48.8	6.21	0.67	0.23	0.24	0	0.02	0.01	0.1	37.1	5	14	700	250	10
1520	1.07	55.4	6.15	0.17	0	0	0	0.01	0	0.1	43.6	5	18	80	120	8
1521	1.07	48.2	7.82	0.25	0.09	0.08	0	0.01	0	0.09	43.9	5	13	280	180	6
1522	0.31	48.8	8.16	0.13	0	0	0	0.01	0	0.1	44.8	5	12	180	140	6
1523	0.6	40	13.1	0.18	0.28	0.04	0	0.03	0	0.11	43.8	5	13	70	120	9
1524	0.74	52.3	6.34	0.29	0.1	0.04	0	0.01	0.01	0.09	43.6	5	25	330	180	10
1525A	0.58	43.7	11	0.14	0.04	0.03	0	0.02	0	0.07	45	5	92	130	130	9
1525B	0.22	25.3	15.9	0.2	1.85	0	3	0.08	0	0.2	23.5	5	190000	30	50	6
1526	1.14	53.5	4.27	0.4	0.2	0.2	0	0.01	0	0.09	42.4	5	96	350	150	6
1527	1.59	49.6	5.85	0.35	0.22	0.05	0	0.01	0.02	0.1	43.7	5	28	310	110	7
1528	1.99	47.3	7.99	0.36	0.09	0.1	0	0.01	0	0.09	43.1	5	16	280	130	6
1529	4.46	46.8	5.79	0.65	0.51	0	0	0.11	0.01	0.11	42.2	5	12	100	120	12
1530	0.53	54.4	4.3	0.23	0.07	0.01	0	0.01	0	0.09	43.7	5	14	340	100	6
1531	0.65	30.2	19.6	0.19	0.22	0	0	0.04	0	0.08	47.2	5	19	50	80	6
1532	0.4	29.6	19.8	0.19	0.39	0	0	0.04	0	0.08	46.8	5	13	30	70	6
1533	2.73	34.7	16.4	0.34	0.16	0	0	0.03	0.01	0.1	42.7	5	10	60	80	8
1534	0.19	42	13.1	0.13	0.05	0	0	0.02	0	0.08	47.3	5	24	100	100	11
1535	15.7	28.5	16.9	0.31	0.86	0.06	0	0.1	0.02	0.1	28.5	5	15	60	60	9
1536	2.12	32.5	17.8	0.12	0.6	0	0	0.09	0	0.1	45.8	5	15	120	80	7
1537	1.48	47.5	10.3	0.21	0.32	0.05	0	0.04	0	0.1	43.6	5	38	230	110	16
1538	0.12	31.3	18.8	0.21	0.15	0.04	0	0.06	0	0.1	46.4	5	26	60	60	6
1539	0.21	52.6	7.9	0.13	0.03	0	0	0.02	0	0.1	43	5	9	1170	100	8
1540	4.21	30.7	18.3	0.2	0.27	0.04	0	0.16	0	0.11	43.5	5	46	60	80	6
1541	4.72	49.1	7.38	0.18	0.09	0	0	0.1	0	0.12	40.4	5	12	90	100	6
1542	5.74	49.4	5.31	0.21	0.08	0.06	0	0.02	0	0.11	38.5	5	10	150	110	8
1543	1.48	53.1	4.89	0.35	0.17	0.01	0	0.01	0	0.11	44	5	10	230	150	10
1544	1.14	29.8	18.7	0.39	0.33	0.05	0	0.05	0.02	0.09	52.2	5	8	70	200	6
1545	0	49.4	3.42	0.51	0.15	0.18	0	0.01	0.01	0.07	44.3	5	15	410	180	6
1546	1.29	50.4	6.86	0.35	0.04	0.1	0	0.01	0	0.09	42.8	5	12	260	120	6
1547	2.01	28.5	19.7	1.67	0.35	0.04	0	0.03	0.07	0.1	45.3	5	13	60	60	5
1548	1.63	51	7.53	0.8	0.1	0.08	0	0.01	0.02	0.1	43.4	5	13	250	200	7
1549	0.18	53.7	6.42	0.28	0	0	0	0.02	0	0.09	42.9	5	9	140	90	8
1550	0.56	53.8	4.77	0.29	0.01	0.03	0	0.01	0	0.1	44.7	5	9	160	140	8
1551	20	24.1	9.86	0.86	0.28	0	0	0.07	0.02	0.07	16.7	5	34	50	40	5
1552	1.25	56.5	3.92	0.14	0.02	0	0	0.02	0	0.1	43.4	5	7	120	90	7
1553	0.35	30.4	19.5	0.2	0.25	0.01	0	0.05	0.01	0.09	48.6	5	8	60	80	6
1554	0.79	49.6	8.62	0.21	0.11	0.02	0	0.01	0.01	0.1	43.8	5	12	280	120	7
1555	1.78	45.4	9.96	0.37	0.39	0.14	0	0.04	0.02	0.09	42.9	5	18	430	260	18
1556	0.93	53.6	5.33	0.22	0.06	0	0	0.01	0	0.1	43.6	5	10	510	120	8
1557	20	24.1	19.4	0.45	2.33	0.02	0	0.07	0.02	0.12	5.4	5	48	30	50	6
1558	5.88	36.5	14.4	0.31	0.47	0.05	0	0.13	0	0.11	44.5	5	9	70	90	7

1559	18.4	25.6	22.3	0.11	0.29	0	0	0.09	0	0.11	38	5	34	100	70	6
1560	9.98	27.7	19.8	0.11	0.31	0	0	0.07	0	0.09	39.6	5	12	60	160	6
1561	13	27.6	20.2	0.15	1.09	0	0	0.15	0	0.2	40.1	5	23	120	140	6
1562	1.5	29.7	20.1	0.1	0.88	0	0	0.16	0	0.15	46.9	5	13	50	70	6
1563	0.73	54.1	6	0.22	0.04	0	0	0.01	0	0.09	43.6	5	10	410	170	7
1564	0.47	49.8	7.1	0.14	0.03	0	0	0.01	0	0.09	44.3	5	22	400	160	6
1565	2.18	48.9	5.78	0.65	0.27	0.28	0	0.01	0.04	0.09	42	10	1000	310	200	10
1566	3.34	48.8	5.7	0.78	0.44	0.19	0	0.12	0.03	0.1	39.2	5	37	600	250	8
1567	5.34	29.1	18.1	0.2	0.36	0	0	0.06	0.01	0.09	42.9	5	180	140	40	8
1568A	8	28.5	20.1	0.08	0.15	0	0	0.08	0	0.1	40.1	5	12	80	60	6
1568B	20	17.5	13.7	0.16	0.89	0	0	0.05	0	0.09	3.4	5	13	50	430	3
1569	0.53	44.6	9.82	0.22	0.2	0.08	0	0.04	0	0.09	44.6	5	11	150	90	6
1570	1.45	49.4	6.92	0.37	0.02	0.2	0	0.03	0	0.1	43.4	5	12	160	130	7
1571	1.26	53.7	4.68	0.32	0.09	0.17	0	0.01	0	0.11	42.9	5	13	250	150	8
1572	20	19	24.5	0.21	0.65	0	0	0.07	0.01	0.12	7.8	5	38	30	60	3
1573	20	28.2	20.1	0.71	0.53	0.05	0	0.04	0.04	0.1	37.5	5	70	200	60	7
1574	20	32.5	14.8	0.31	0.13	0	0	0.01	0	0.09	30.1	5	15	130	90	6
1575	0.91	54.9	4.6	0.09	0	0	0	0.01	0	0.07	44.6	5	12	210	80	6
1576	0.82	43.9	9.81	0.27	0.09	0.06	0	0.01	0.01	0.09	44.8	5	11	150	90	6
1577	1.37	30.2	19.8	0.19	0.22	0.01	0	0.04	0	0.09	46.9	5	6	30	50	6
1578	0.77	52.3	7.74	0.16	0	0	0	0.01	0	0.08	43.7	5	3	220	80	7
1579	1.28	29.7	19.8	0.21	0.27	0.01	0	0.04	0.02	0.09	50.1	5	6	50	40	6
1580	0.35	29.8	20	0.16	0.19	0	0	0.03	0	0.09	47.7	5	6	50	50	6
1581	3.87	49.5	7.5	0.59	0.34	0.22	0	0.04	0.04	0.08	41.1	5	30	172	90	8
1582	0.57	51.3	7.07	0.21	0.06	0.04	0	0.01	0	0.1	44.1	5	8	280	90	6
1583	0.33	57.1	3.16	0.16	0.03	0	0	0.03	0	0.1	43.3	5	3	530	110	7
1584	3.38	53.7	2.7	0.52	0.24	0	0	0.02	0	0.11	42.6	5	6	130	100	8
1585	2.38	29.3	19.1	0.6	0.72	0.32	0	0.09	0.05	0.1	44.2	5	3	50	120	6
1586	0.93	57.7	4.07	0.31	0.22	0	0	0.03	0.01	0.1	44.3	5	3	140	80	9
1587	0.56	52.7	4.79	0.24	0.04	0.02	0	0.01	0	0.1	43.1	5	6	380	130	8
1588	0.04	51.5	6.48	0.14	0	0	0	0.01	0	0.09	44.4	5	3	130	90	8
1589	0.68	53.4	4.58	0.23	0.13	0.03	0	0.01	0	0.1	43.4	5	8	570	180	7
1590	1.85	51.8	5.5	0.31	0.13	0.08	0	0.02	0.01	0.1	41.9	5	5	130	130	16
1591	0.58	50.4	6.25	0.2	0.15	0.04	0	0.01	0	0.1	44.2	5	3	200	70	7
1592	0.52	50.5	6.49	0.22	0.1	0.07	0	0.01	0	0.1	43.8	5	3	210	90	7
1593	1.24	56.2	2.92	0.28	0.08	0	0	0.02	0	0.1	43.3	5	3	210	70	9
1594	0.28	53.8	4.26	0.15	0.09	0	0	0.02	0	0.11	44.1	5	3	220	122	7
1595	0.95	41.4	10.9	0.36	0.26	0.04	0	0.11	0.01	0.11	45.3	5	3	70	90	8
1596	0.53	40.7	12.1	0.22	0.1	0.04	0	0.02	0	0.1	45.4	5	10	90	110	9
1597	11.8	29.8	17	0.35	0.29	0	0	0.04	0.02	0.1	33.4	5	16	50	60	8
1598	1.22	42.7	11.2	0.21	0.19	0.02	0	0.03	0	0.1	46.8	5	5	90	80	6
1599	6.06	43.1	7.48	0.43	1.04	0.2	0	0.07	0.01	0.1	39.2	5	36	130	120	14
1600	1.63	54.2	5.14	0.32	0.29	0	0	0.03	0	0.1	42.5	5	7	200	70	10
1601	3.34	48.3	6.74	0.16	0.23	0.03	0	0.09	0	0.1	41.4	5	6	110	140	8
1602	20	24	13.6	5	6.09	2	1.26	0.07	0.6	0.13	19.8	5	16	340	220	5
1603	20	24	19.6	1.02	1.81	0.05	0	0.09	0.02	0.15	2.8	5	22	40	40	16
1604	3.95	50.3	6.29	0.42	0.28	0.05	0	0.03	0	0.1	43.8	5	5	1530	100	7
1605	20	25.3	19.2	0.68	0.77	0	0	0.1	0.06	0.14	20.2	5	8	80	40	6
1606	6.98	49.9	5.44	0.73	0.66	0.06	0	0.04	0.04	0.12	40.6	5	22	420	120	10
1607	1.87	56.3	3.91	0.23	0.16	0	0	0.02	0	0.1	43.7	5	3	410	80	7
1608	1.2	56.6	2.09	0.41	0.23	0.09	0	0.02	0.01	0.1	42.5	5	4	160	110	8
1609	2.72	29.4	19.5	0.12	0.12	0	0	0.05	0	0.07	45.4	5	8	60	60	6
1610	1.12	51.3	6.72	0.29	0.46	0.13	0	0.03	0	0.1	43.2	5	5	1220	120	12
1611	7.2	31.1	15	1.53	1.66	0.85	0	0.12	0.15	0.21	33.5	5	102	80	120	11
1612	1.85	53.5	3.17	0.38	0.19	0.1	0	0.04	0.01	0.11	43.8	17	160	1080	120	12
1613	8.64	41.9	6.64	0.37	1.13	0.06	0	0.06	0.02	0.11	33.6	5	30	140	80	12

1614	1.12	53.5	4.32	0.19	0.06	0	0	0.02	0	0.1	46.7	5	5	220	100	7
1615	1.61	52	4.9	0.32	0.23	0.1	0	0.05	0.01	0.1	42.9	5	32	140	90	8
1616	4.57	49.1	5.92	0.2	0.09	0.01	0	0.03	0	0.1	39.7	5	12	120	170	8
1617	3.52	48.1	5.35	0.81	0.17	0.39	0	0.01	0.05	0.11	42.8	5	20	230	110	8
1618	0.82	29.8	19.6	0.23	0.21	0.08	0	0.03	0.02	0.1	46	5	9	30	60	7
1619	4.88	31.1	17.9	0.41	0.89	0.19	0	0.07	0.02	0.1	35.9	5	32	90	120	8
1620	1.7	48.7	8.85	0.24	0.14	0.07	0	0.01	0.01	0.1	43	5	9	200	110	8
1621	1.89	49	6.67	0.35	0.14	0.11	0.02	0.01	0.01	0.09	42.7	5	10	390	180	8
1622	0.75	49	6.39	0.25	0.08	0.04	0	0.01	0	0.09	44.2	5	10	180	110	8
1623	0.39	37.2	14.4	0.14	0.09	0	0	0.03	0	0.09	46.3	5	11	80	70	8
1624	2.51	44.4	9.68	0.32	0.15	0.15	0	0.04	0	0.12	40.7	5	16	110	100	8
1625	0.6	52.8	6.04	0.19	0.11	0.03	0	0.01	0	0.09	43.8	5	10	220	100	7
1626	0.39	51.8	5.96	0.19	0.01	0.02	0	0.02	0	0.09	44.7	5	8	130	90	8
1627	0.2	29.9	19.9	0.19	0.18	0.02	0	0.04	0.01	0.09	46.7	5	8	40	80	9
1628	0.78	29.9	19.1	0.22	0.15	0	0	0.04	0	0.09	46.3	5	12	30	60	7
1629	3.31	47.3	8.37	0.7	0.44	0.33	0	0.03	0.03	0.1	40.9	5	16	400	150	10
1630	0.87	29.7	19.8	0.23	0.19	0	0	0.05	0.01	0.08	45.6	5	35	50	60	10
1631	2.26	35.3	16.4	0.5	0.46	0.06	0	0.05	0.05	0.09	43.3	5	15	170	120	12
1632	3.02	48.9	8.65	0.37	0.08	0.09	0	0.01	0.01	0.12	39.3	5	12	1310	220	8
1633	2.68	52.6	4.4	0.31	0.05	0.04	0	0.01	0	0.1	42.8	5	11	2550	190	9
1634	5.8	28.1	19.3	0.96	0.89	0.61	0	0.07	0.06	0.09	41.7	12	92	70	130	16
1635	1.98	51.8	3.8	0.49	0.55	0.25	0	0.02	0.01	0.11	42.2	5	10	1540	90	9
1636	4.01	53	0.83	1.05	0.87	0.19	0.04	0.01	0.03	0.11	37.4	5	26	1690	190	15
1637	2	56	3.31	0.45	0.05	0.05	0	0.01	0.01	0.1	42.5	5	8	2000	140	9
1638	20	24	21.3	0.44	0.39	0	0	0.05	0.02	0.08	3	5	74	110	240	5
1639	20	5.38	10.5	5	5.99	2	0.47	0.14	0.64	0.12	2.3	5	42	50	430	36
1640	6.69	28.1	19.7	0.8	0.48	0.24	0	0.04	0.05	0.09	48.2	5	22	40	130	8
1641	5.08	46.4	10.2	0.65	0.23	0.15	0	0.02	0.02	0.1	43.3	5	17	120	120	8
1642	2.95	53.3	5.92	0.44	0.18	0.1	0	0.02	0.01	0.09	43.2	5	16	310	170	9
1643	2.21	28.9	20	0.58	0.43	0.28	0	0.06	0.03	0.09	45.1	5	26	40	80	8
1644	0.57	48.2	10.1	0.23	0.02	0.04	0	0.01	0	0.09	44	5	12	190	160	8
1645	16.9	33.6	11	1.32	0.63	0.7	0	0.07	0.01	0.09	35.3	5	46	100	150	12
1646	0.73	52.7	6.6	0.25	0.04	0.07	0	0.01	0	0.1	41.3	5	8	200	130	8
1647	0.53	44.4	10.4	0.2	0.06	0.03	0	0.02	0	0.09	43.6	5	8	110	90	8
1648	1.88	42.6	10.8	0.56	0.7	0.24	0	0.18	0.06	0.09	42.9	5	10	90	130	11
1649	1.32	49.6	7.58	0.3	0.07	0.12	0	0.03	0	0.1	42.8	5	25	110	100	8
1650	1.41	29.4	19.7	0.3	0.27	0.01	0	0.04	0.01	0.09	45.3	5	10	30	80	8
1651	3.42	41.6	13.1	0.27	0.08	0.1	0	0.1	0	0.11	39.8	5	42	130	130	8
1652	0.54	53.6	6.36	0.16	0.02	0	0	0.01	0	0.1	41.2	5	7	240	120	9
1653	11.5	44.4	5.59	0.79	0.36	0	0	0.17	0.01	0.12	36.4	5	14	90	120	5
1654	3.14	50.9	6.05	0.46	0.11	0.14	0	0.02	0.01	0.11	42.7	5	12	200	100	8
1655	1.56	29.6	20	0.38	0.48	0.03	0	0.05	0.03	0.07	45.6	5	8	50	60	6
1656	0.29	29.8	20.5	0.12	0.27	0	0	0.04	0	0.08	45.5	5	6	50	50	6
1657	1.31	48.7	10.8	0.32	0.08	0.09	0	0.01	0.01	0.1	41.9	5	8	200	100	6
1658	0.06	29.8	20.1	0.13	0.17	0	0	0.04	0	0.08	45.2	5	16	30	60	6
1659	6.87	33.4	19.7	0.45	0.42	0.26	0	0.04	0.02	0.09	30.7	5	14	80	70	12
1660	1.83	50.7	8.07	0.24	0.2	0.01	0	0.02	0	0.09	41.9	5	10	320	130	14
1661	1.64	54.4	5.7	0.18	0.12	0.03	0	0.03	0	0.09	42.9	5	9	420	110	7
1662	0.82	55.1	5.34	0.16	0.08	0	0	0.02	0	0.09	41.8	5	8	240	90	8
1663	1.14	30	20.2	0.26	0.4	0	0	0.03	0.03	0.08	44.3	5	6	30	50	6
1664	2.72	46.6	11.6	0.36	0.18	0	0	0.04	0.02	0.11	41.9	5	12	120	80	6
1665	20	25	18.9	0.13	0	0	0	0.04	0	0.11	10.6	5	54	70	400	6
1666	5.26	28.3	20.6	0.49	0.25	0	0	0.05	0.02	0.09	45.3	5	46	140	1100	6
1667	1.19	29.3	20.1	0.28	0.5	0.02	0	0.06	0.01	0.1	51.5	5	13	80	80	6
1668	1.18	49.5	10.6	0.23	0.06	0.02	0	0.01	0	0.09	42.1	5	10	390	110	6
1669	1.12	52.1	7.73	0.24	0.03	0	0	0.01	0	0.09	43.6	5	10	390	110	6

1670	0.09	43.8	7.54	0.35	0.18	0.08	0	0.02	0.01	0.1	37.7	5	21	140	90	6
1671A	5.74	54.4	1.77	0.25	0.05	0	0	0.02	0	0.1	40.2	5	7	90	160	6
1671B	20	5.87	2.11	0.16	0.12	0.01	0	0.03	0	0.09	1.7	5	8	10	20	3
1672	20	42.9	4.08	0.26	0.07	0.01	0	0.02	0	0.09	39.3	5	10	100	120	6
1673	3.64	30.1	18.4	0.22	0.47	0.02	0	0.08	0	0.09	47.2	5	9	110	70	6
1674	2.51	29.8	19.4	0.35	0.24	0	0	0.04	0	0.09	44.9	5	10	50	70	6
1675	0	29.8	20.6	0.13	0.17	0	0	0.03	0.01	0.09	45.4	5	8	50	80	6
1676	0.67	29.7	20.3	0.31	0.39	0	0	0.09	0	0.09	47.4	5	10	70	80	6
1677	0.76	50.8	10.4	0.29	0.09	0	0	0.03	0	0.09	43.8	5	8	250	110	6
1678	0.45	51.2	6.53	0.23	0.08	0.02	0	0.02	0	0.1	44.3	5	12	260	110	6
1679	6.58	50	4.18	0.82	0.18	0.26	0	0.03	0.03	0.11	38.4	5	16	90	90	6
1680	0.27	55.1	5.05	0.17	0.02	0	0	0.01	0	0.09	42.5	5	12	250	110	6
1681	9.3	42.2	6.47	1.82	0.55	0.88	0	0.03	0.05	0.1	36.6	5	33	500	250	5
1682	3.32	49	6.21	1.02	0.18	0.51	0	0.01	0.03	0.1	40.7	5	14	380	240	6
1683	20	26	19.3	0.28	0.46	0.01	0	0.04	0.01	0.11	26.1	5	19	40	60	8
1684	2.81	52.1	7.12	0.3	0.09	0.03	0	0.02	0.02	0.1	43.7	5	10	390	100	6
1685	0.56	29.9	19.8	0.26	0.48	0.01	0	0.1	0	0.11	47.4	5	12	60	50	8
1686	0.85	29.5	20.8	0.28	0.71	0	0	0.1	0	0.11	45.2	5	240	60	40	8
1687	0	30.1	20.3	0.16	0.08	0	0	0.05	0	0.42	45.1	5	132	100	50	6
1688	0	30.1	20.2	0.09	0.21	0	0	0.08	0	0.13	46.1	5	86	60	40	7
1689	0.46	41.8	13.6	0.23	0.19	0.07	0	0.05	0	0.12	44.3	5	9	150	70	6
1690	3.07	51.8	7.7	0.25	0.09	0	0	0.03	0	0.11	43.7	5	9	110	110	8
1691	1.21	47.9	8.74	0.16	0.09	0	0	0.02	0	0.1	43.2	5	10	230	80	6
1692	9.64	42.8	8.7	0.34	0.19	0	0	0.02	0.01	0.11	32.5	5	30	130	60	6
1693	4.55	52.7	4.85	0.33	0.14	0	0	0.03	0	0.11	40.5	5	10	110	70	6
1694	1.68	55.1	5.36	0.19	0.01	0	0	0.05	0	0.09	43	5	127	120	170	8
1695	7.53	46.1	6.18	0.09	0.12	0	0	0.05	0	0.1	35.7	5	16	80	170	18
1696	4.47	54.2	1.05	0.24	0.2	0	0	0.02	0	0.1	39.3	5	15	120	190	8
1697	1.44	57.9	1.24	0.22	0.01	0	0	0.02	0	0.11	41.5	5	10	110	130	6
1698	2.39	57.8	0.68	0.22	0.11	0	0	0.02	0	0.09	41.5	5	10	120	150	7
1699	4.63	49.5	3.4	0.71	1.04	0.21	0.01	0.07	0.03	0.13	37.3	5	24	230	180	14
1700	20	24.1	19.8	0.55	0.48	0	0	0.03	0.03	0.11	5.5	5	38	20	70	5
1701	20	38	11.6	0.86	0.66	0	0	0.03	0.02	0.13	31.8	5	19	110	210	5
1702	3.74	56.6	3.05	0.32	0.04	0.01	0	0.01	0	0.1	41	5	10	90	140	6
1703	6.91	50.4	1.95	0.16	0	0	0	0.01	0	0.09	35.8	5	12	80	160	5
1704	0.59	55	3.96	0.14	0.01	0	0	0.01	0	0.1	41.9	5	10	210	160	6
1705	0.45	50.8	4.51	0.25	0.04	0.04	0	0.01	0	0.1	43.1	5	12	290	160	5
1706	3.18	49.5	5.57	0.63	0.22	0.23	0	0.02	0.04	0.1	42	5	26	590	220	6
1707	15.5	26.4	18.7	1	0.49	0.23	0	0.05	0.08	0.15	31.2	5	19	40	120	5
1708	3.02	35.2	13.6	0.44	0.75	0.01	0	0.19	0.01	0.09	43.9	5	10	70	120	5
1709	6.33	28.3	20.3	0.57	0.39	0	0	0.04	0.03	0.11	40.2	5	11	30	90	5
1710	9.02	27.7	20.3	0.4	0.3	0.07	0	0.03	0.03	0.1	37.3	5	10	30	100	6
1711	5.37	51.6	7.41	0.23	0.07	0	0	0.02	0	0.1	38.1	5	18	90	120	6
1712	1.65	46.2	8.12	0.36	0.29	0.08	0	0.04	0	0.1	43.8	5	15	140	160	6
1713	1.25	53.7	4.27	0.28	0.25	0	0	0.01	0	0.09	42.8	5	14	460	220	6
1714	1.34	29.2	20.1	0.23	0.18	0	0	0.03	0.01	0.08	44.7	5	20	60	100	6
1715	0.61	53.5	6.86	0.23	0.08	0.04	0	0.02	0	0.09	42.5	5	14	360	250	6
1716	0.4	54.1	4.87	0.19	0.04	0	0	0.01	0	0.09	43.8	5	12	220	170	6
1717	4.36	51.9	3.05	0.36	0.6	0	0	0.02	0	0.1	38.8	5	25	100	220	10
1718	1.32	29.2	20.8	0.35	0.22	0	0	0.03	0	0.08	45	5	10	20	100	6
1719	2.53	38.5	14.6	0.21	0.16	0.03	0	0.05	0	0.1	41.4	5	15	40	160	8
1720	4.45	46.3	7.5	1.11	0.15	0.37	0	0.01	0.04	0.13	39.2	5	16	360	320	7
1721	0.75	47.7	8.61	0.34	0.02	0	0	0.01	0	0.1	43.7	5	14	280	170	5
1722	0.94	53.3	5	0.45	0.07	0.03	0	0.01	0.02	0.1	43.9	5	12	330	280	7
1723	0.97	52.1	5.19	0.26	0.11	0.02	0	0.01	0	0.1	42	5	15	430	210	6
1724	2.49	50	5.34	0.7	0.42	0.31	0	0.03	0.03	0.1	40.7	5	76	590	220	6

1725	0.48	52.7	4.92	0.29	0.07	0.07	0	0.01	0	0.1	41.2	5	14	290	100	6
1726	0.74	55.2	3.56	0.28	0.06	0.07	0	0.02	0	0.1	42.7	5	16	320	100	6
1727	0.72	52.9	4.55	0.44	0.06	0.08	0	0.01	0	0.09	41.7	5	18	600	100	6
1728	1.51	50.7	5.35	0.43	0.14	0.14	0	0.01	0.02	0.1	42.5	5	18	440	100	5
1729	1.05	54.6	3.56	0.35	0.1	0.12	0	0.02	0.01	0.1	42	5	12	240	70	7
1730	7.59	51.4	0.98	0.27	0.08	0.04	0	0.02	0	0.1	38.1	5	20	100	160	6
1731	1.5	50.6	4.97	0.39	0.11	0.15	0	0.01	0.01	0.1	41.5	5	13	230	100	6
1732	0.47	46.5	8.25	0.15	0.18	0	0	0.03	0	0.1	43.1	5	16	90	70	6
1733	1.5	47.6	8.1	0.26	0.13	0.01	0	0.04	0	0.1	43.3	5	14	80	120	5
1734	3.11	47.7	7.05	0.2	0.14	0.03	0	0.03	0	0.09	39.4	5	14	130	190	6
1735	1.89	51.8	4.77	0.38	0.21	0.15	0	0.03	0.02	0.1	41.6	5	13	230	110	6
1736	6.77	50	2.46	0.63	0.21	0	0	0.06	0.05	0.11	39	5	12	110	100	8
1737	0.35	32.7	16.8	0.14	0.66	0	0	0.09	0	0.09	46.2	5	10	60	80	5
1738	0.65	31.8	17.8	0.22	0.53	0	0	0.11	0	0.11	47.6	5	12	80	80	6
1739	0.57	42.4	12.4	0.18	0.27	0	0	0.14	0	0.09	44.3	5	32	80	120	6
1740	20	0.6	0.37	0.95	0.04	0	0	0.03	0.18	0.09	0	5	3	30	2560	3
1741	20	42.3	4.92	0.39	0.13	0.04	0	0.01	0.05	0.1	43.3	5	12	260	140	6
1742	4.44	29.2	18.3	0.35	0.48	0.02	0	0.05	0.03	0.09	46.6	5	17	40	90	6
1743	1.82	48.6	7.92	0.21	0.05	0	0	0.01	0	0.09	44	5	12	210	120	6
1744	1.02	50.9	6.73	0.19	0.03	0.01	0	0.01	0	0.09	44.3	5	16	160	100	6
1745	0.85	29.4	19.1	0.29	0.21	0.01	0	0.04	0.02	0.09	46.3	5	24	30	160	5
1746	3.29	49.7	7.8	0.2	0.07	0	0	0.02	0	0.1	40.5	5	12	140	110	5
1747	1.28	40.7	12.4	0.26	0.12	0.05	0	0.03	0	0.1	44.4	5	64	80	90	6
1748	20	24.7	18.8	0.12	1.27	0	0	0.1	0	0.09	8.9	5	38	110	30	3
1749	2.21	47.1	8.14	0.17	0.1	0.04	0	0.02	0	0.09	44.7	5	16	150	80	5
1750	1.32	52.1	5.99	0.18	0.11	0.01	0	0.02	0	0.1	43.4	5	12	270	80	6
1751	1.75	49.6	6.71	0.34	0.14	0.1	0	0.02	0.01	0.1	45.3	5	14	210	60	6
1752	1.99	50.9	5.39	0.52	0.08	0.08	0	0.01	0.01	0.1	42.1	5	11	250	90	6
1751	1.11	53.7	4.71	0.28	0.07	0.04	0	0.01	0	0.1	43.2	5	14	210	60	6
1754	1.42	51.6	5.01	0.38	0.05	0.14	0	0.01	0.02	0.09	42.2	5	10	290	120	6
1755	0.45	51.6	6.11	0.16	0.03	0	0	0.01	0	0.09	43.3	5	12	210	70	6
1756	1.1	29.6	19.8	0.42	0.45	0.13	0	0.04	0.03	0.09	45.3	5	8	20	40	7
1757	1.02	29.6	19.9	0.32	0.29	0.06	0	0.02	0.04	0.09	45.5	5	12	70	60	3
1758	0.43	29.5	20.5	0.23	0.19	0.03	0	0.03	0.01	0.1	48	5	10	30	40	5
1759	2.59	28.9	19.9	0.27	0.93	0	0	0.11	0.01	0.11	45.4	5	17	110	100	5
1760	6.88	27.9	20.4	0.08	0.21	0	0	0.08	0	0.09	35.9	5	14	90	60	3
1761	3.56	31.6	16.9	1.03	1.07	0.27	0	0.17	0.03	0.11	46.4	5	12	90	180	10
1762	20	24	23.5	0.46	2.67	0	0	0.09	0.03	0.12	16.1	5	36	80	60	5
1763	1.68	52.9	5.27	0.29	0.1	0.07	0	0.01	0	0.09	43.8	5	13	220	80	6
1764	0.17	55.7	3.25	0.2	0.07	0.04	0	0.02	0	0.09	43.3	5	22	1170	120	6
1765	1.43	29.6	21.1	0.34	0.25	0.04	0	0.04	0.01	0.09	45.8	5	46	30	50	6
1766	0.76	52.2	5.25	0.26	0.06	0.09	0	0.01	0	0.12	43.3	5	11	160	70	7
1767	0.71	53.8	5.14	0.21	0.06	0.02	0	0.01	0.01	0.09	43.7	5	12	230	100	7
1768	2.18	52.2	4.71	0.22	0.18	0.08	0	0.03	0	0.09	40.6	5	18	160	100	8
1769	0.3	52.8	5.02	0.21	0.1	0.04	0	0.01	0	0.09	43.7	5	14	240	70	6
1770	8.41	26.3	23.8	0.12	0.99	0	0	0.13	0.01	0.11	39.8	5	109	120	130	8
1771	1.21	29.4	20.9	0.34	0.18	0.06	0	0.04	0.02	0.1	45.4	5	12	30	30	6
1772	1.11	54.1	3.94	0.34	0.21	0.09	0	0.01	0.02	0.1	43.6	5	12	370	120	6
1773	0.18	53.8	4.59	0.18	0.02	0.01	0	0.01	0	0.1	43.8	5	10	280	140	6
1774	0.61	50.4	6.37	0.24	0.1	0.09	0	0.01	0	0.08	43.4	5	17	290	90	6
1775	3.63	46.1	8.01	0.25	0.26	0.1	0	0.04	0	0.09	40	5	24	140	90	7
1776	0.51	52.4	5.47	0.17	0.03	0.01	0	0.01	0	0.09	43.8	5	12	270	120	6
1777	3.11	29.2	20.1	0.28	0.36	0.09	0	0.05	0.01	0.09	45.4	5	94	50	70	6
1778	1.08	33.4	17.2	0.38	0.63	0.09	0	0.13	0.01	0.08	49.3	5	10	110	130	6
1779	4.67	35.7	13.8	0.95	1.06	0.14	0	0.13	0.03	0.1	42.9	5	12	120	190	24
1780	20	0.94	0.81	0.74	0.06	0	0	0.02	0.03	0.11	0	5	3	20	20	3

1781	1.13	52.9	4.55	0.2	0.07	0	0	0.02	0	0.08	43.5	5	14	500	160	6
1782	0.25	29.9	18.9	0.12	0.32	0	0	0.06	0	0.1	47.7	5	13	90	60	6
1783	1.25	50	7.54	0.4	0.17	0.08	0	0.02	0.01	0.1	42.9	5	14	600	180	6
1784	0.21	31.1	18.8	0.11	0.25	0	0	0.07	0	0.08	46.4	5	10	60	60	6
1785	3.28	29	20.2	0.22	0.85	0	0	0.11	0	0.09	46.3	5	10	70	80	6
1786	1.48	29.4	21	0.21	0.15	0	0	0.05	0	0.08	46.9	5	8	40	60	5
1787	10.7	45	5.95	0.55	0.29	0.17	0	0.18	0.01	0.09	35.6	5	8	120	610	7
1788	20	35.1	14.1	0.26	0.3	0	0	0.05	0.01	0.09	34.8	5	14	400	2880	5
1789	20	18.3	23.8	0.33	1.22	0	0	0.06	0.05	0.08	3.2	5	66	50	90	5
1790	1.66	29.9	20.6	0.13	0.21	0	0	0.06	0	0.08	46.8	5	30	100	50	6
1791	1.3	53	8.7	0.09	0.03	0	0	0.02	0	0.1	43.1	5	11	660	110	6
1792	1.76	34.3	16.3	0.52	0.61	0.03	0	0.15	0.01	0.08	45.6	5	8	70	70	7
1793	1.21	52.3	7.03	0.27	0.04	0	0	0.02	0.01	0.09	42.6	5	11	360	120	5
1794	1.64	51.5	6.1	0.42	0.16	0.16	0	0.02	0.02	0.1	42.4	5	14	260	140	6
1795	3.18	48.2	6.4	0.38	0.3	0	0	0.21	0.01	0.09	42	5	8	120	180	6
1796	1.62	52.1	5.68	0.38	0.09	0.04	0	0.02	0	0.09	43.4	5	12	570	190	6
1797	0.45	54.1	4.45	0.18	0.05	0	0	0.01	0	0.09	43	5	10	440	110	6
1798	1.19	52.9	4.32	0.36	0.09	0.06	0	0.01	0	0.1	44.5	5	14	560	180	6
1799	20	32.6	14.6	0.56	0.43	0	0	0.06	0.02	0.11	33.9	5	24	170	90	16
1800	20	26	15.7	1.08	2.04	0.01	0	0.22	0.04	0.08	36.5	5	8	60	100	9
1801	2.08	51	5.62	0.23	0.09	0	0	0.02	0	0.07	43.5	5	9	290	80	5
1802	0.41	30.2	19	0.25	0.62	0	0	0.07	0	0.08	48.7	5	10	90	60	8
1803	0.22	52.6	7.67	0.14	0.29	0	0	0.02	0	0.09	43.8	5	9	200	90	5
1804	0.32	30	20.2	0.16	0.08	0.02	0	0.04	0.02	0.08	45.7	5	19	40	70	5
1805	1.36	53.1	6.26	0.24	0	0.1	0	0.01	0	0.1	42.6	5	11	1250	310	6
1806	16.3	28.2	15.6	2.82	1.6	0.03	0	0.1	0.14	0.09	31.5	5	28	160	170	8
1807	20	13.1	8.44	2.94	1.58	0.27	0	0.15	0.19	0.11	10.4	5	6	50	130	6
1808	20	35.2	4.36	1.39	0.33	0	0	0.11	0.04	0.1	32.7	5	6	130	510	6
1809	12.1	33.9	12.9	1.2	1.53	0.32	0	0.09	0.1	0.1	39.1	10	108	170	1910	6
1810	2.07	56.3	3.77	0.27	0.09	0	0	0.02	0	0.09	44.9	5	8	150	230	5
1811	3.52	43.4	9.85	0.35	0.17	0.07	0	0.03	0.01	0.1	42.7	5	14	140	200	5
1812	10.7	41.5	8.52	0.62	0.4	0.05	0	0.03	0.02	0.11	33.2	5	22	120	140	14
1813	20	24.2	19.8	0.31	1.28	0	0	0.16	0.01	0.13	23.5	5	37	110	170	8
1814	3.15	30.6	19.7	0.21	0.17	0	0	0.04	0	0.12	48.9	5	20	70	130	6
1815	1.52	53.2	6.73	0.2	0	0	0	0.02	0	0.09	45.2	5	14	70	90	6
1816	0.9	50.7	7.5	0.12	0.07	0	0	0.03	0	0.09	44.5	5	12	160	120	6
1817	1.03	30	20.2	0.08	0.12	0	0	0.05	0	0.1	46.1	5	24	80	60	6
1818	1.22	30.6	19.3	0.11	0.24	0	0	0.07	0	0.09	46.3	5	12	90	60	7
1819	0	30.2	20.1	0.08	0.26	0	0	0.07	0	0.09	46.3	5	17	80	80	7
1820	4.05	48.8	9.1	0.57	0.23	0.04	0	0.03	0.01	0.1	42.4	5	16	140	400	7
1821	10.2	46.5	5.82	0.49	0.41	0	0	0.04	0	0.09	38.8	5	14	180	90	7
1822	1.4	48.7	7.94	0.26	0.1	0	0	0.02	0	0.09	39.3	5	23	110	120	6
1823	2.91	55.8	3.42	0.19	0.1	0	0	0.02	0	0.09	38.3	5	18	120	120	8
1824	1.54	29.5	19.9	0.46	0.29	0.02	0	0.04	0.02	0.1	43.5	5	14	30	50	6
1825	1.66	50.2	7.45	0.53	0.15	0.16	0	0.02	0.02	0.09	44.2	5	26	360	100	7
1826	1.38	52.2	6.99	0.44	0.19	0.15	0	0.03	0.01	0.1	42.2	5	32	320	120	8
1827	0.82	53.5	5.5	0.32	0.09	0	0	0.02	0	0.09	43.5	5	14	350	120	6
1828	1.08	54.1	4.79	0.28	0.11	0.09	0	0.02	0	0.1	42.3	5	16	460	240	6
1820	1.52	52.5	5.41	0.25	0.1	0.03	0	0.02	0.01	0.1	43.1	5	16	140	400	7
1830	1.55	53.4	5.1	0.29	0.09	0.06	0	0.02	0	0.09	43.1	5	24	390	190	6
1831	0.79	52.3	5.29	0.24	0.12	0	0	0.03	0	0.09	43.4	5	34	350	100	6
1832	1.82	29.5	19.9	0.16	0.2	0	0	0.05	0	0.09	42.7	5	40	40	40	6
1833	3.03	49.6	6.85	0.66	0.47	0.29	0	0.03	0.03	0.1	40.5	5	18	460	200	6
1834	4.12	29.1	20	0.17	0.22	0	0	0.07	0	0.11	41.1	5	24	50	60	10
1835	1.81	46.9	10.7	0.21	0.12	0.02	0	0.02	0	0.09	43.1	5	18	350	90	6
1836	1.47	47.3	8.75	0.26	0.87	0.05	0	0.05	0	0.09	43.7	5	18	460	120	6

1837	1.35	52.5	5.84	0.24	0.12	0.03	0	0.02	0	0.09	43.1	5	30	430	150	7
1838	1.43	50	7.11	0.23	0.25	0.03	0	0.02	0	0.09	42.9	5	24	390	110	6
1839	3.76	52.2	4.06	0.52	0.22	0.11	0	0.02	0	0.09	42.4	5	14	300	90	6
1840	1.75	51	5.34	0.5	0.31	0.16	0	0.02	0.03	0.09	42.1	5	22	380	100	7
1841	3.63	47.7	6.03	0.85	0.55	0.36	0	0.03	0.06	0.08	40.6	5	20	290	120	8
1842	1.82	54.8	3.21	0.44	0.2	0.16	0	0.02	0.01	0.09	43	5	20	160	90	6
1843	1.06	49.1	6.6	0.17	0.07	0.01	0	0.03	0	0.09	44.7	5	16	210	80	6
1844	1.35	52.3	4.94	0.41	0.09	0.12	0	0.01	0.01	0.09	42.9	5	24	630	220	8
1845	5.56	48.9	4.74	0.96	0.66	0.28	0	0.07	0.04	0.1	39.7	5	22	250	120	7
1846	2.57	46.2	8.23	0.7	0.33	0.2	0	0.03	0.03	0.09	42.6	5	18	200	110	6
1847	7.07	28.3	1.89	0.11	0.41	0	0	0.1	0	0.09	38.1	5	26	70	80	6
1848	10.6	45.8	5.09	0.64	0.22	0.02	0	0.04	0.01	0.1	36	5	16	210	80	11
1849	2.77	31.8	18.7	0.39	0.41	0	0	0.04	0.03	0.08	43.1	5	12	90	50	5
1850	1.92	41.9	11.4	0.27	0.12	0.09	0	0.03	0.01	0.1	43.8	5	40	80	100	6
1851	1.01	49	7.56	0.26	0.24	0.06	0	0.02	0	0.09	44.3	5	15	320	120	6
1852	1.55	52.4	4.78	0.31	0.23	0.04	0	0.02	0	0.09	42.2	5	14	310	140	7
1853	0.83	42	11.2	0.19	0.02	0.01	0	0.01	0	0.09	41.3	5	14	350	110	6
1854	0.46	52.3	6.12	0.19	0.06	0.02	0	0.01	0	0.09	43.5	5	14	300	100	9
1855	1.62	50.3	6.5	0.45	0.32	0.16	0	0.01	0.01	0.09	42.8	5	22	500	140	8
1856	1.82	51.5	5.25	0.55	0.33	0.24	0	0.02	0.02	0.07	42.9	5	16	160	110	8
1857	0.3	49.9	6.31	0.2	0.03	0.02	0	0.01	0	0.09	39.8	5	14	200	100	8
1858	1.89	49.9	5.42	0.55	0.44	0.21	0	0.01	0.02	0.1	42.1	5	68	600	160	8
1859	0.92	51	5.28	0.3	0.12	0.1	0	0.01	0.01	0.1	43.3	5	37	400	140	12
1860	0.41	50.5	5.97	0.22	0.06	0.03	0	0.02	0	0.13	44.2	5	20	280	100	8
1861	0.39	31.5	17.3	0.2	0.23	0.04	0	0.04	0	0.09	45.3	5	18	30	100	16
1862	0.61	50.1	8.07	0.11	0.12	0	0	0.02	0	0.09	42	5	17	190	80	8
1863	0.77	51.9	6.02	0.28	0.43	0.12	0	0.02	0	0.09	42.1	5	15	520	190	13
1864	1.62	51.4	5.54	0.19	0.07	0.04	0	0.03	0	0.09	39.9	5	14	140	90	8
1865	3.76	28.8	17.6	0.31	1.53	0	0	0.11	0.01	0.09	44.1	5	20	50	50	28
1866	3.95	50.7	4.09	0.58	0.33	0.28	0	0.04	0.02	0.11	40.5	5	16	150	120	8
1867	1.01	29.4	19.4	0.1	1.03	0	0	0.1	0	0.08	45.8	5	28	430	60	8
1868	5.9	27.2	19.7	1.16	2.09	0	0	0.12	0.04	0.08	39.7	5	56	80	60	15
1869	4.91	47.1	6.78	1.13	0.85	0.29	0	0.03	0.03	0.07	39.5	5	28	210	110	8
1870	3.77	28.9	18.9	0.46	0.4	0	0	0.07	0.02	0.09	41.6	5	30	170	700	10
1871	20	24.2	4.24	5	1.4	2	0	0.03	0.4	0.14	15.8	5	14	110	190	36
1872	4.85	51.6	3.83	1.55	0.28	0.48	0	0.02	0.05	0.1	42.2	5	16	2380	420	10
1873	1.83	29.8	18.9	0.4	0.93	0	0	0.09	0.01	0.08	45.7	5	14	60	50	7
1874	20	24.1	21	1.31	1.53	0.02	0	0.07	0.06	0.11	2.8	5	26	50	1500	5
1875	10.3	38.9	9.55	2.25	1.06	0.88	0	0.03	0.11	0.11	36	5	48	520	120	8
1876	2.95	29.3	18.6	0.72	0.63	0.07	0	0.19	0.03	0.09	46.8	5	29	90	100	8
1877	20	26.9	7.08	0.29	0.5	0	0	0.05	0.02	0.09	1	5	34	220	80	6
1873	4.61	49.3	6.71	0.24	0.13	0	0	0.02	0.01	0.08	42.1	5	14	60	50	7
1879	2.33	29.5	20.2	0.25	0.53	0	0	0.05	0.02	0.08	44.6	5	11	40	70	8
1880	3.75	45.5	10.5	0.36	0.16	0.1	0	0.02	0.01	0.1	42.2	5	14	200	120	10
1881	1.75	49.2	7.66	0.34	0.14	0.15	0	0.01	0.01	0.1	42.1	5	13	230	110	8
1882	1.55	49.9	6.86	0.31	0.08	0.05	0	0.01	0.02	0.09	41.4	5	14	190	120	9
1883	0.83	29.8	19.4	0.18	0.47	0.03	0	0.03	0	0.09	46.2	5	20	50	70	7
1884	1.05	29.4	19.2	0.39	0.95	0.07	0	0.13	0.03	0.08	50.1	5	12	60	90	6
1885	0.67	47.9	9.53	0.23	0.11	0.04	0	0.02	0	0.09	41	5	19	140	170	8
1886	1.67	48.5	8.53	0.47	0.18	0.19	0	0.02	0.04	0.09	42.5	5	14	80	130	10
1887	1.12	49.5	7.62	0.24	0.08	0.13	0.1	0.02	0	0.09	44.4	5	14	190	140	8
1888	0.57	50.7	6.93	0.19	0.11	0.03	0	0.02	0	0.09	43.3	5	20	430	190	9
1889	1.15	48.2	7.69	0.32	0.21	0.11	0	0.03	0.01	0.1	43.9	5	22	120	150	8
1890	1.39	49.1	6.96	0.32	0.19	0.08	0	0.03	0.01	0.1	43.6	5	16	160	130	8
1891	0.53	55.1	4.76	0.16	0.1	0.03	0	0.02	0	0.09	42.2	5	15	200	150	8
1892	0.63	54.9	4.36	0.25	0.09	0.05	0	0.01	0	0.1	42.2	5	18	200	140	9

1893	0.72	39.1	1.53	0	0.06	0.06	0	0.01	0.01	0.1	40.3	5	14	100	120	10
1894	0.69	52.9	5.35	0.28	0.04	0.1	0	0.01	0	0.09	39.6	5	26	180	120	8
1895	0.62	51.4	5.77	0.26	0.08	0.07	0	0.01	0	0.09	41.7	5	24	180	90	8
1896	0.09	48.7	7.71	0.13	0.02	0	0	0.01	0	0.09	41	5	17	120	90	8
1897	0.06	30	20.1	0.23	0.27	0.01	0	0.03	0.01	0.08	45.1	5	14	30	70	6
1898	2.82	55.1	4.05	0.19	0	0.03	0	0.02	0	0.09	38.5	5	11	90	140	10
1899	2.05	49.9	6.19	0.35	0.22	0.15	0	0.04	0	0.12	40.9	5	15	200	130	10
1900	0.61	53.6	4.78	0.2	0.06	0.01	0	0.01	0	0.09	42.7	5	15	460	150	10
1901	1.22	58.3	1.4	0.22	0.02	0.05	0	0.02	0	0.1	40.9	5	12	110	140	9
1902	0.8	53.1	4.38	0.21	0.06	0.06	0	0.03	0	0.1	38.8	5	23	150	140	10
1903	0.43	54.7	4.07	0.2	0.31	0.06	0	0.03	0	0.09	43.1	5	16	270	120	8
1904	1.69	52.1	4.39	0.23	0.22	0.09	0	0.04	0	0.09	41.4	5	22	100	260	12
1905	0.21	30.2	18.9	0.1	0.36	0	0	0.04	0	0.09	45.7	5	28	40	50	8
1906	0.17	29.6	19.8	0.2	0.42	0.04	0	0.05	0.01	0.08	47.4	5	18	40	80	7
1907	1.01	34.6	15.6	0.28	0.61	0.03	0	0.14	0	0.08	45.1	5	12	80	130	8
1908	0.89	47.7	9.7	0.3	0.17	0.09	0	0.03	0.02	0.09	43.6	5	16	320	160	8
1909	0.63	49.4	8.11	0.23	0.16	0.07	0	0.02	0.01	0.08	43.8	5	15	200	110	9
1910	4.41	48.7	5.7	1.06	0.17	0.29	0	0.01	0.03	0.11	40.5	5	20	150	300	8
1911	0.74	43.6	10.8	0.22	0.12	0.06	0	0.03	0	0.09	44.7	5	24	100	100	7
1912	0.67	58.1	2.83	0.24	0.06	0	0	0.02	0	0.09	43.2	5	16	100	110	10
1913	1.12	50.1	5.38	0.2	0.03	0.05	0	0.01	0	0.08	43.2	5	16	200	120	8
1914	0.41	50.2	6.97	0.2	0.05	0.04	0	0.02	0	0.09	44.5	5	18	160	150	8
1915	0.92	29.3	19.05	0.31	0.46	0.12	0	0.04	0.02	0.08	45.6	5	17	60	70	6
1916	1.14	51.1	5.98	0.3	0.21	0.09	0	0.01	0.01	0.08	42.6	5	22	460	140	8
1917	4.04	50.5	5.18	0.73	0.43	0.22	0	0.04	0.03	0.1	41	5	16	230	130	8
1918	4.35	44.9	8.44	0.42	0.38	0.13	0	0.04	0.02	0.11	44.5	5	12	120	110	7
1919	7.96	45.4	8.22	0.64	0.57	0.1	0	0.04	0.02	0.13	40.2	5	16	180	110	9
1920	8.68	39.2	9.05	1.2	1.53	0.69	0	0.06	0.07	0.14	34.7	5	30	200	150	20
1921	1.44	51.3	5.93	0.24	0.09	0.03	0	0.02	0	0.09	43.8	5	18	160	120	8
1922	6.3	43.4	8.63	1.18	0.46	0.65	0	0.05	0.04	0.1	37.8	5	19	150	150	12
1923	1.85	51.4	5.34	0.47	0.11	0.23	0	0.01	0.02	0.1	42.3	5	14	350	180	9
1924	2.36	49	6.97	0.48	0.22	0.18	0	0.01	0.01	0.09	43.3	5	22	440	170	12
1925	1.78	46	8.15	0.52	0.35	0.16	0	0.06	0.03	0.09	44.5	5	13	90	160	16
1926	1.78	49.4	6.23	0.4	0.43	0.11	0	0.03	0.01	0.09	44.8	5	18	200	160	8
1927	0.41	45	9.58	0.2	0.16	0.01	0	0.02	0	0.09	44.1	5	30	90	120	6
1928	0.5	53.3	5.37	0.2	0.04	0.03	0	0.01	0.01	0.09	42.7	5	14	230	120	8
1929	1.38	52.5	5.19	0.41	0.11	0.16	0	0.01	0.03	0.09	42.2	5	20	280	180	10
1930	9.11	37.8	7.8	2.21	0.26	0.55	0.24	0.02	0.03	0.12	36.3	5	41	200	420	7
1931	1.88	29.3	19.5	0.33	0.57	0.07	0	0.06	0.01	0.08	45.4	5	24	100	110	8
1932	4.73	45.2	8.32	1.02	0.65	0.02	0.03	0.03	0.05	0.11	40.9	5	30	740	130	8
1933	13.6	27.5	19.2	1.59	0.57	0.85	0	0.03	0.1	0.1	31.8	5	154	70	160	6
1934	20	24.2	3.09	5	3.54	0.86	1.58	0.04	0.35	0.16	10.9	5	70	260	220	26
1935	9.67	43.4	6.11	1.86	1	0.25	0.12	0.03	0.08	0.11	38.8	5	32	350	130	6
1936	20	28.8	3.84	5	2.2	0.86	0.53	0.04	0.2	0.15	19.1	5	60	340	350	12
1937	10.1	27.3	20.9	1.75	0.86	0.51	0	0.04	0.07	0.09	36.7	5	24	50	180	8
1938	8.79	41.6	8.74	2.14	0.88	0.4	0.05	0.02	0.09	0.11	35.2	5	44	710	430	6

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3	3	2	3	368950	4979750	18
3	3	4	3	369400	4978900	18
3	5	2	3	369800	4978500	18
3	5	6	3	374650	4974900	18
3	3	4	3	374900	4974600	18
3	7	3	3	375400	4973900	18
3	3	4	3	374850	4973450	18
3	3	4	3	373850	4971650	18
3	3	7	3	373300	4971000	18
3	3	6	3	375900	4974450	18
3	3	3	3	373350	4969550	18
3	7	6	3	372950	4968750	18
3	5	5	3	373400	4990280	18
3	3	4	3	371410	4991190	18
3	3	8	3	370510	4991450	18
3	3	3	3	378750	4994590	18
3	3	4	3	378630	4994930	18
3	3	4	3	379830	4995890	18
3	3	2	3	371800	4997970	18
6	5	12	6	372140	4997550	18
3	3	2	3	367270	5000320	18
3	3	2	8	375740	4990330	18
3	5	6	5	365910	4989100	18
3	3	4	3	365800	4988190	18
9	53	4	17	365630	4987360	18
3	5	4	5	367490	4989560	18
3	3	2	3	370450	4988940	18
3	6	8	5	405250	4957850	18
3	12	6	3	406450	4957850	18
3	3	4	3	407200	4957100	18
3	8	4	3	405260	4988450	18
3	3	2	3	370450	4988940	18
3	3	2	3	375750	4965950	18
3	5	12	3	373100	4965900	18
3	3	9	3	373150	4966150	18
3	3	7	3	373700	4966600	18
3	3	4	3	375300	4967100	18
3	5	4	3	376950	4966800	18
3	5	8	3	376800	4967500	18
3	5	12	3	376300	4968000	18
3	3	4	3	377050	4968450	18
3	7	6	3	377150	4967900	18
3	3	13	3	378700	4967650	18
3	5	4	3	379700	4967600	18
3	5	4	3	380150	4968300	18
3	3	5	3	380050	4969050	18

3	6	3	3	380100	4969400	18
3	3	7	3	380750	4969950	18
3	3	6	3	381150	4970250	18
3	3	4	3	378300	4968800	18
3	3	4	3	378800	4969150	18
3	3	4	5	376350	4969150	18
3	5	5	3	375700	4969300	18
3	3	5	3	375200	4969600	18
3	3	4	3	376250	4969650	18
3	3	10	3	377550	4968950	18
3	5	5	3	377850	4969350	18
3	3	16	3	378250	4969700	18
3	3	5	3	378950	4970250	18
3	3	4	3	379650	4970800	18
3	3	5	3	379450	4971600	18
3	3	10	3	380200	4971350	18
3	3	8	3	380850	4971800	18
3	3	15	3	381200	4971500	18
3	3	8	3	381450	4972200	18
3	3	4	3	381870	4972570	18
3	3	9	3	382090	4973180	18
3	3	6	3	382430	4973730	18
3	3	5	3	382890	4974580	18
3	3	8	3	383410	4974890	18
3	3	11	3	383970	4975140	18
3	3	6	3	384700	4975250	18
3	3	10	3	386110	4976650	18
5	7	7	3	386690	4977100	18
3	3	4	3	390610	4978760	18
3	6	5	3	389540	4979720	18
3	5	8	3	389000	4980000	18
3	6	6	3	388390	4979360	18
3	5	5	3	388800	4978520	18
3	3	4	3	386500	4975710	18
3	3	4	3	386190	4975490	18
3	3	4	3	385550	4974930	18
3	5	6	3	384890	4974410	18
3	3	8	3	385120	4974000	18
3	3	4	5	385900	4968760	18
3	3	12	6	731820	4951380	17
3	3	13	3	731220	4961170	17
5	10	20	3	731860	4961530	17
3	6	8	3	731600	4962300	17
3	7	14	3	732160	4959580	17
3	3	8	3	735110	4960350	17
3	7	14	3	736120	4960560	17

SAMPLE	SIO2	CAO	MGO	AL2O3	FE2O3	K2O	NA2O	MNO	TIO2	P2O5	LOI	PB	ZN	SR	BA	CU
31-X	3.87	52.1	2.74	0.46	0.297	0.297	0.007	0.0302	0.0137	0.07	41.3	2.5	28	372	300	40.7
31-Y	5.1	36.4	15.3	0.878	0.59	0.712	0.035	0.0335	0.0158	0.06	42.4	2.5	31	117	50	26.3
31-Z	7.47	46.3	4.45	1.98	0.573	1.14	0.053	0.0122	0.0461	0.08	38.5	2.5	31	363	170	19.8
104-Y	0.886	56.1	1.25	0.194	0.188	0.101	0.003	0.0153	0.0103	0.06	43	2.5	25	595	15	8.8
104-Z	3.44	55.1	1.06	0.626	0.519	0.373	0.003	0.0228	0.0199	0.07	41.2	2.5	40	158	50	35.2
134-Z	3.24	52.1	4.54	0.343	0.209	0.08	0.037	0.0168	0.0109	0.06	41.2	2.5	31	273	50	14
244-Y	7.58	46.9	3.39	2.2	1.05	0.48	0.47	0.0221	0.0366	0.08	38.3	2.5	29	396	100	9.4
244-Z	3.73	52.5	2.23	0.426	0.605	0.138	0.082	0.0367	0.0181	0.07	41.2	2.5	28	201	40	105
265-Z	6.02	50.1	3.24	1.23	0.635	0.596	0.126	0.0293	0.0252	0.08	40	2.5	38	412	80	9.9
313-Y	1.73	50.6	5.33	0.374	0.39	0.161	0.043	0.0238	0.0102	0.07	43.1	2.5	48	437	15	20.9
313-Z	15.3	41.6	5.06	3.16	1.11	2.34	0.156	0.0239	0.115	0.09	32.1	2.5	29	509	120	18.9
347-Y	0.95	53.1	3.7	0.165	0.19	0.055	0.007	0.0115	0.0147	0.06	42.4	2.5	52	429	160	17.3
347-Z	0.834	51.8	4.72	0.143	0.121	0.0035	0.006	0.0075	0.0102	0.06	42.7	5	36	289	15	69.8
356-Z	0.798	52.6	3.96	0.122	0.098	0.009	0.019	0.0083	0.0045	0.05	42.6	2.5	29	333	15	51.2
367-X	0.389	53.8	4.12	0.081	0.149	0.0035	0.003	0.0324	0.0034	0.06	43.1	2.5	37	255	15	31.2
367-Y	1.21	53.4	3.31	0.279	0.178	0.067	0.008	0.0098	0.0187	0.08	42.8	2.5	32	507	15	5.9
367-Z	1.36	53.3	3.27	0.314	0.156	0.099	0.003	0.0102	0.0251	0.07	42.4	2.5	32	582	80	25.1
483-Z	0.928	53	3.74	0.237	0.158	0.197	0.003	0.0117	0.005	0.06	42.7	2.5	26	230	15	3.9
498-Z	0.625	54.3	3.78	0.135	0.205	0.077	0.003	0.0071	0.0158	0.06	43	2.5	26	388	15	3.9
499-Z	0.421	55.2	3.54	0.085	0.097	0.03	0.003	0.0059	0.0081	0.06	42.8	2.5	26	320	15	9.6
588-Z	4.9	51.6	3.37	1.13	0.402	0.123	0.378	0.0741	0.0595	0.05	40.2	2.5	36	366	310	40.2
689-V	6	56.4	0.446	0.228	0.073	0.201	0.007	0.0121	0.0227	0.06	38.1	2.5	27	94.3	15	58.1
689-W	1.34	54.1	3.98	0.211	0.179	0.157	0.003	0.0215	0.0126	0.06	42.2	2.5	25	199	15	8.1
689-X	2.07	55	1.93	0.127	0.09	0.065	0.003	0.0122	0.0101	0.06	40.8	2.5	26	148	15	32.7
689-Y	1.55	53.9	3.79	0.247	0.129	0.175	0.003	0.0162	0.0115	0.06	41.4	5	43	85.1	15	18.5
689-Z	3.73	55.1	2.17	0.184	0.137	0.09	0.007	0.0191	0.0146	0.07	39.8	2.5	32	109	15	6.9
692-Z	0.276	54.2	3.32	0.065	0.086	0.037	0.003	0.0114	0.0052	0.07	42.9	2.5	55	122	15	62.9
697-Z	0.922	53.2	4.24	0.178	0.324	0.118	0.003	0.014	0.0157	0.06	42.8	2.5	26	329	15	25.1
746-Z	0.398	51	6.73	0.11	0.114	0.076	0.003	0.0096	0.0088	0.06	43.1	2.5	35	171	15	33.9
808-B	12.1	48.4	0.583	1.63	0.678	0.505	0.003	0.024	0.0525	0.06	36.6	2.5	37	1750	1520	0.4
808-C	25.5	34.1	3.22	5.77	2.11	1.59	1.75	0.0179	0.28	0.2	25.9	2.5	56	1150	2900	23.9
818-Z	8.97	31.8	20.7	0.333	0.994	0.033	0.134	0.0844	0.0117	0.07	39.1	2.5	35	162	30	3.7
819-Z	2.33	53	3.08	0.335	0.245	0.103	0.054	0.0185	0.0133	0.05	42	45	33	371	15	336
834	5.3	51.8	3.24	0.849	0.418	0.319	0.079	0.0118	0.0256	0.07	39.6	2.5	29	913	400	2.6
835	0.794	31.7	22.3	0.143	0.275	0.088	0.099	0.0468	0.0061	0.06	46.4	2.5	36	237	70	0.4
836	1.96	32.2	18.6	0.317	0.212	0.102	0.438	0.0545	0.0087	0.06	45.5	2.5	31	83	15	0.4
837	1.73	38.8	13.1	0.246	0.936	0.193	0.014	0.0823	0.0121	0.05	44.2	2.5	33	293	80	0.8
838	0.156	55.6	1.96	0.015	0.153	0.019	0.003	0.0361	0.0009	0.04	43.9	2.5	28	177	15	2.3
839	1.62	31.5	21.8	0.0025	0.198	0.0035	0.031	0.0733	0.0001	0.05	45.7	2.5	36	129	15	0.4
840	3.02	31.1	20.4	0.844	0.615	0.117	0.018	0.0494	0.0133	0.06	44.2	2.5	29	51.3	30	8
841	32.7	28.2	19.7	0.132	0.557	0.052	0.094	0.0509	0.0072	0.04	18.4	2.5	30	86	15	0.4
842	7.07	48.9	3.05	1.42	0.424	0.45	0.186	0.0203	0.0422	0.05	38.4	2.5	27	141	40	1.4
843	21.8	36.7	4.57	4.62	1.26	1.73	0.637	0.0752	0.277	0.13	24.9	2.5	37	169	160	17.3
844	1.55	30.1	21.6	0.498	0.539	0.049	0.307	0.0782	0.0096	0.05	45.9	2.5	31	97.9	15	0.4
845	5.48	51.7	1.14	1.45	0.291	1.27	0.059	0.254	0.0384	0.08	39.8	2.5	29	345	70	2.7
846	25.1	38.6	4.69	1.29	0.902	0.274	0.305	0.0404	0.0909	0.06	28.4	2.5	30	382	200	2.6
847	32.8	36.7	3.21	1.59	0.686	0.424	0.633	0.0246	0.0972	0.06	27.6	2.5	28	158	15	3.4
848	15	43.1	2.43	3.82	1.76	0.356	0.885	0.0463	0.149	0.11	32.9	5	44	606	70	1.1
849	29.5	30.1	3.54	7.29	4.34	0.063	2.52	0.113	0.33	0.11	21	2.5	87	457	15	1190
850	4.09	51.1	2.16	0.636	0.642	0.192	0.045	0.0315	0.0235	0.06	41.6	2.5	36	825	90	23.1
851	1.14	54.6	1.4	0.202	0.436	0.169	0.003	0.0191	0.0152	0.06	42.6	2.5	26	393	15	2.1
852	45.3	12.6	4.35	13	2.42	0.404	7.28	0.111	0.909	0.09	12.9	2.5	83	238	90	16.2
853	20.8	37.9	2.99	5.33	2.55	0.607	1.35	0.0703	0.202	0.12	27.7	2.5	40	288	40	1.3
854	13.7	44.2	2.61	3.99	1.87	0.516	0.743	0.042	0.216	0.13	31.5	2.5	54	582	120	1.2
855	13.2	28.5	19.3	0.357	0.492	0.094	0.027	0.041	0.0171	0.05	37	10	87	56	15	0.9

856	12.5	46.9	2.39	0.275	0.304	0.123	0.003	0.0694	0.0112	0.04	37.9	2.5	28	147	50	17.1
857	12.1	44.7	3.01	2.17	1.37	0.489	0.349	0.0511	0.0847	0.07	35.5	2.5	43	435	70	4.6
858	10.7	44	4.18	2.65	1.65	0.333	1.1	0.0344	0.128	0.08	35.8	2.5	39	463	60	30.4
859	12.7	44.8	3.06	2.77	1.62	0.355	0.768	0.0373	0.0754	0.08	35.7	2.5	42	496	60	1
860	17.3	39.9	3.68	5.53	1.88	1.41	0.713	0.0395	0.176	0.12	29.9	2.5	39	569	300	24.9
861	47.8	18.8	3.77	10.5	6.2	1.46	2.77	0.0616	0.662	0.22	9.15	2.5	102	242	230	155
862	22.3	41	1.14	4.83	0.801	1.19	0.39	0.0724	0.1	0.27	29.8	2.5	30	135	1930	4.1
863	12.9	43	2.63	3.07	1.17	0.17	1.46	0.0512	0.0298	0.1	35.8	2.5	30	296	15	7.4
864	36.4	30.9	1.78	5.2	1.8	2.14	0.234	0.169	0.254	0.15	21.6	35	702	524	2580	37.3
865	11.6	44.5	3.43	2.39	1.6	0.831	0.198	0.0237	0.14	0.08	34.4	2.5	41	287	50	12.2
866	64.5	8.91	3.59	12.1	2.07	5.88	0.907	0.0563	0.723	0.19	1.82	30	68	147	350	13.9
867	34.9	28.4	16.2	0.992	0.623	0.215	0.828	0.0375	0.0492	0.06	18.8	2.5	56	179	15	2.8
868	2.25	32	22	0.376	0.827	0.0035	0.492	0.0716	0.0036	0.05	44.6	2.5	49	85.3	15	1.2
869	38.7	25.8	16.1	1.52	1.94	0.485	0.464	0.127	0.0621	0.12	12	15	99	147	1050	5.3
870	8.84	46.7	2.61	0.3	0.256	0.195	0.017	0.0736	0.0204	0.07	37	2.5	45	836	1410	3.9
871	1.74	30.1	22.4	0.201	0.574	0.024	0.003	0.0818	0.0075	0.04	45.1	2.5	46	67.9	15	1.3
872	12.9	44.4	2.3	3.25	2.23	0.532	0.613	0.049	0.148	0.11	34.5	2.5	41	388	80	3.3
873	26.7	32.7	0.975	7.53	1.99	1.48	2.38	0.033	0.281	0.21	25.3	2.5	33	296	220	3.5
874	15.2	41.5	3.18	4.18	1.93	0.502	1.28	0.0409	0.166	0.12	32.7	2.5	57	388	130	9.5
875	1.42	53.7	2.09	0.213	0.323	0.07	0.013	0.0348	0.0138	0.07	42.2	2.5	36	485	15	4.7
876	40	26.8	3.48	9.39	4.67	1.68	1.95	0.0746	0.609	0.25	14.6	2.5	85	331	260	25.8
877	40	26.5	3.52	9.43	4.84	1.51	2.07	0.0727	0.583	0.25	14.9	2.5	82	336	320	65.8
878	20.9	41.4	2.69	4.93	2.41	0.829	0.915	0.0506	0.273	0.16	27.9	2.5	53	475	220	7.8
879	1.52	54.3	2.18	0.343	0.655	0.079	0.054	0.0304	0.0144	0.06	42.1	2.5	34	593	15	3.2
880	51.8	15.8	2.52	12.9	4.54	1.19	2	0.108	0.856	0.29	6.32	2.5	81	264	110	40.7
881	9.01	50.5	2.1	0.248	0.213	0.065	0.037	0.0185	0.0171	0.07	37.7	2.5	35	157	110	3.9
882	10.2	47.5	0.969	0.679	0.572	0.203	0.179	0.0164	0.0538	0.08	37.9	2.5	31	136	390	3.7
883	2.66	50.9	1.01	0.114	0.227	0.048	0.003	0.0129	0.0103	0.05	41.6	2.5	32	112	15	3.5
884	4.76	49.6	1.73	0.837	0.775	0.109	0.075	0.0384	0.032	0.06	39.4	2.5	31	380	15	3.8
885	17.1	46.4	3.52	0.154	0.229	0.038	0.003	0.0246	0.0078	0.07	31.9	2.5	33	129	1430	4.9
886	28.3	33.9	2.17	6.08	2.6	1.52	1.24	0.12	0.363	0.17	24.3	2.5	45	437	240	5.1
887	8.6	47.2	2.04	3.03	1.81	0.377	0.376	0.0746	0.0728	0.11	35.8	2.5	45	736	50	4.4
888	3.96	48.5	1.96	0.86	1.03	0.172	0.186	0.063	0.0299	0.08	40.4	2.5	41	524	15	3.6
889	46.3	21.7	4.47	10	5.82	1.21	2.31	0.0687	0.691	0.28	10.6	2.5	95	281	280	210
890	6.93	49.8	2.71	1.78	0.923	0.268	0.48	0.0254	0.0669	0.12	38.6	2.5	50	966	15	6.5
891	21.2	40.3	1.95	4.62	2.76	0.815	1.02	0.163	0.327	0.15	28.6	2.5	49	415	90	3.7
892	42.9	15.2	8.41	15.6	3.56	6.83	0.83	0.0258	0.257	0.08	9.93	2.5	131	491	1320	3
893	24.3	39.7	2.47	5.02	1.47	1.26	1.51	0.0429	0.0936	0.08	27.4	2.5	47	364	80	29.7
894	17	44.7	2.18	3.29	1.02	1.07	0.912	0.0301	0.0407	0.08	32.5	2.5	37	489	60	3.9
895	16.2	46.1	2.25	4.04	2.6	0.366	0.715	0.077	0.223	0.12	30.6	2.5	49	537	50	6.2
896	2.57	55.8	1.89	0.308	1.35	0.093	0.009	0.0819	0.0118	0.07	41.3	2.5	33	678	15	9.1
897	48.9	13.1	4.7	13.6	6.29	2.11	2.88	0.0508	0.664	0.25	4.96	2.5	94	345	370	160
898	7.95	49.7	2.97	1.05	0.957	0.081	0.225	0.0251	0.0712	0.06	38	2.5	36	816	15	3.8
899	37.1	26.6	3.56	8.02	5.24	0.818	2.24	0.106	0.635	0.28	15.2	2.5	83	259	260	33.6
900	44.8	19.2	4.18	11.4	6.21	1.43	2.57	0.0736	0.767	0.23	8.79	2.5	105	384	340	104
901	6.65	50.1	2.85	1.39	1.02	0.087	0.404	0.0333	0.0536	0.07	38.3	2.5	36	708	15	3.6
902	19.5	43	2.63	4.23	1.57	1.17	0.69	0.089	0.568	0.37	28.9	2.5	54	233	210	4.3
903	13.2	48.4	2.74	2.34	1.95	0.51	0.503	0.0471	0.234	0.13	32.9	2.5	52	558	110	17
904	22.4	36.3	4.62	6.22	3.48	0.231	1.24	0.0846	0.38	0.15	25.1	2.5	68	788	50	10.9
905	3.87	54.8	2.55	0.259	0.237	0.043	0.027	0.0277	0.0165	0.06	40.8	2.5	47	171	15	8.3
906	8.74	49.7	3.56	2.69	1.15	0.362	0.604	0.0453	0.137	0.1	35.3	2.5	43	370	15	3.5
907	10.8	38.4	2.08	2.03	1.65	0.361	0.378	0.0458	0.0988	0.1	34.7	2.5	39	433	130	2.4
908	20	41.3	3.13	4.23	2.72	0.438	1.05	0.0659	0.28	0.14	28.1	2.5	63	410	70	49.1
909	13.5	45.7	2.94	2.78	1.67	0.384	0.56	0.0428	0.156	0.12	31.3	2.5	52	693	170	12.8
910	41.7	20.6	4.48	10.6	5.69	1.7	2.21	0.0706	0.69	0.22	10.5	2.5	105	287	380	71.4
911	11.8	49	3.21	2.23	1.78	0.285	0.476	0.0517	0.16	0.11	33.1	2.5	46	599	110	7.2

912	8.35	51	2.63	1.61	1.11	0.146	0.408	0.026	0.135	0.08	36.2	2.5	45	581	60	8.1
913	11.8	46.7	2.61	2.52	3.12	0.247	0.675	0.0989	0.26	0.19	32.4	2.5	57	565	90	9.6
1038-Z	5.57	52	2.04	1.52	0.538	0.458	0.12	0.0082	0.117	0.08	39.3	2.5	24	1530	380	22.9
1055-Y	1.9	57.4	1.06	0.213	0.171	0.09	0.027	0.0109	0.0172	0.07	42.2	2.5	38	1360	15	8.6
1055-Z	1.25	41	13.8	0.162	0.476	0.048	0.015	0.241	0.0084	0.07	44.8	2.5	48	80.4	15	34.1
1129-Y	9.47	49.3	5.32	0.757	0.33	0.42	0.027	0.0117	0.0421	0.11	35.6	2.5	78	638	240	13.1
1129-Z	1.61	42.9	9.97	0.276	0.226	0.126	0.003	0.0104	0.0184	0.1	42.4	2.5	32	693	30	5.5
1206-Z	6.12	50.4	4.22	1.05	0.488	0.332	0.09	0.0145	0.0453	0.09	39.1	2.5	32	1620	120	7.1
1211-Y	1.06	50.3	7.08	0.154	0.125	0.009	0.003	0.0123	0.013	0.06	42.7	2.5	33	1170	15	37.3
1211-Z	5.02	50.7	4.71	0.765	0.497	0.026	0.003	0.0439	0.0393	0.09	40.4	80	451	934	30	17
1219-Z	0.601	55.6	3.5	0.093	0.108	0.052	0.003	0.0102	0.0044	0.06	42.9	15	29	160	15	93.5
1308-Z	3.94	48.5	5.14	0.575	0.478	0.2	0.058	0.0301	0.0286	0.08	40.6	2.5	35	421	40	12.2
1563-Z	0.607	54.4	3.48	0.169	0.086	0.091	0.003	0.0073	0.01	0.07	42.3	2.5	31	245	15	25.6
1575-X	0.453	55.2	3.74	0.121	0.068	0.07	0.003	0.0062	0.0033	0.07	43.4	2.5	29	254	15	36.6
1575-Y	0.398	53.2	4.82	0.096	0.088	0.055	0.003	0.0075	0.0042	0.06	42.8	2.5	29	218	15	14.6
1575-Z	0.757	54.5	3.51	0.145	0.116	0.078	0.003	0.0067	0.0106	0.06	42.3	2.5	27	241	15	13.4
1680-Y	0.526	53.7	4.01	0.172	0.118	0.081	0.003	0.0086	0.0149	0.07	42.3	2.5	27	271	15	5.4
1680-Z	0.896	50.3	3.59	0.191	0.192	0.101	0.003	0.0136	0.0203	0.07	42.7	2.5	20	300	15	11.7
1704-Y	0.886	32.9	23.7	0.16	0.211	0.01	0.132	0.0233	0.0136	0.05	45.3	2.5	22	31.4	15	16.9
1704-Z	0.851	54.5	3.87	0.102	0.141	0.047	0.003	0.0098	0.0091	0.04	45.3	2.5	30	276	15	21.5
1912-Z	0.59	54.3	4.28	0.093	0.092	0.065	0.003	0.0056	0.0024	0.06	42.6	5	21	167	15	59

CO	CR	LI	NI	F	BE	CD	TH	ZR	V	MO	AG	S	REFLECT	EASTING	NORTHING	ZONE
23	8.1	5	13	460	0.3	10	22	5	2.1	50	2.5	0.02	36	301200	4943500	18
15	6.2	5	17	130	0.2	9	20	10	3.3	70	2.5	0.02	27	301200	4943500	18
23	10.9	9	17	490	0.4	9	22	10	11.9	50	2.5	0.07	27	301200	4943500	18
14	5.2	4	11	760	0.2	10	24	1.5	3	15	2.5	0.05	35	291600	4965600	18
24	8.4	7	13	130	0.3	9	25	5	8.5	40	2.5	0.07	31	291600	4965600	18
23	8	4	12	35	0.3	10	22	1.5	1.9	40	2.5	0.02	70	356600	4942500	18
16	10.9	13	12	75	0.3	14	25	5	9.7	40	2.5	0.005	48	293800	4973000	18
22	7.4	4	14	115	0.3	9	24	4	3.3	50	2.5	0.05	43	293800	4973000	18
24	12.9	6	14	480	0.4	14	23	3	8.1	40	2.5	0.005	29	299200	4974500	18
15	8.8	3	12	115	0.2	9	23	1.5	3.4	30	2.5	0.01	55	295800	4995000	18
23	17.2	17	17	2380	0.3	9	23	16	20.7	60	2.5	0.17	49	295800	4995000	18
22	7.9	2	12	255	0.3	9	24	1.5	2.4	40	2.5	0.01	53	349100	4936700	18
16	8.5	2	12	115	0.2	14	24	1.5	1.9	50	2.5	0.005	68	349100	4936700	18
18	8.6	2	12	115	0.2	14	25	1.5	1.8	30	2.5	0.005	60	344400	4952300	18
16	7.9	2	13	60	0.2	9	24	1.5	1.4	30	2.5	0.005	61	337600	4947400	18
15	8.4	3	12	145	0.3	9	24	4	2.9	30	2.5	0.005	60	337600	4947400	18
16	8.7	4	12	380	0.2	9	24	1.5	2.9	30	2.5	0.005	64	337600	4947400	18
22	8	5	13	360	0.3	13	22	3	2.3	40	2.5	0.005	52	357600	4957400	18
26	8.3	2	13	205	0.2	9	32	1.5	2.2	30	2.5	0.005	65	371000	4968400	18
26	7	2	12	185	0.3	9	24	1.5	1.6	30	2.5	0.005	60	371800	4903200	18
27	13.8	3	14	30	0.3	9	27	10	7.6	40	2.5	0.01	59	367000	4953900	18
26	3.4	2	10	10	0.3	13	34	4	1.9	15	2.5	0.005	56	356200	4952500	18
22	8.4	2	13	180	0.3	9	25	1.5	1.8	15	2.5	0.01	44	356200	4952500	18
26	7.8	2	12	125	0.3	9	32	1.5	1.8	40	2.5	0.005	65	356200	4952500	18
26	9.1	2	13	245	0.2	9	33	1.5	2.7	40	2.5	0.005	71	356200	4952500	18
28	7.8	3	12	30	0.3	14	32	3	2.8	30	2.5	0.005	77	356200	4952500	18
26	7.2	3	13	170	0.3	9	29	1.5	1.9	30	2.5	0.005	71	355500	4950800	18
26	7.6	2	12	275	0.2	9	22	1.5	2.6	30	2.5	0.005		359700	4949750	18
28	8.8	3	14	135	0.3	9	25	1.5	2.1	40	2.5	0.005	68	355500	4979200	18
1.5	1.8	7	4	445	0.2	15	3	44	6.9	15	2.5	0.14		306000	5003000	18
29	32.8	38	26	3200	0.7	3.5	20	96	47.2	30	2.5	0.49		306000	5003000	18
26	5.9	4	18	90	0.2	9	24	4	24.5	80	2.5	0.005	74	325100	5009300	18
32	8.4	5	16	75	0.3	9	34	4	3.1	70	2.5	0.005	76	325000	5008500	18
22	6.3	9	13	35	0.2	13	21	8	6.2	15	2.5	0.14		265000	4989000	18
20	0.4	5	14	25	0.2	3.5	16	3	4.4	40	2.5	0.03		264400	4989000	18
15	2.5	3	12	110	0.05	3.5	15	14	1.8	40	2.5	0.03		263600	4988000	18
22	3.1	16	14	225	0.1	3.5	20	1.5	2.6	30	2.5	0.18		263000	4987500	18
22	1.5	2	11	40	0.1	3.5	22	1.5	0.3	15	2.5	0.01		263500	4986500	18
16	0.4	2	11	10	0.05	3.5	20	1.5	0.9	40	2.5	0.005		264200	4986400	18
15	0.4	8	13	135	0.5	3.5	13	12	8.2	40	2.5	0.04		265300	4986200	18
14	1.2	5	10	30	0.1	3.5	14	1.5	4.2	30	2.5	0.005		265000	4985800	18
17	4.7	8	11	20	0.05	3.5	23	6	4.2	15	2.5	0.07		264500	4985500	18
22	11	26	17	40	0.4	3.5	18	18	17.3	30	2.5	0.005		266900	4987000	18
14	0.4	8	12	95	0.05	3.5	14	12	2.6	40	2.5	0.005		268200	4985700	18
16	2.1	2	12	2.5	0.05	3.5	20	19	8.7	15	2.5	0.04		267100	4984100	18
14	6.9	8	11	275	0.05	3.5	15	12	10.7	15	2.5	0.01		266500	4981600	18
16	9.6	4	11	275	0.05	3.5	17	12	10.6	15	2.5	0.17		267400	4980000	18
22	8.4	6	13	255	0.3	3.5	18	18	20.3	15	2.5	0.005		266000	4978200	18
29	19.9	6	21	235	0.2	3.5	19	38	57.6	40	2.5	0.04		268500	4979000	18
17	3.6	3	9	25	0.05	3.5	21	5	3.7	15	2.5	0.005		270100	4978000	18
19	0.4	8	11	225	0.05	3.5	20	5	2.8	15	2.5	0.02		270100	4979000	18
12	145	11	22	215	0.1	3.5	3	55	79.9	30	2.5	0.17		270200	4979600	18
22	12	6	15	205	0.2	3.5	17	16	33.7	15	2.5	0.005		270300	4980200	18
22	10.9	8	14	245	0.2	3.5	27	24	28.3	15	2.5	0.005		274400	4979300	18
14	0.4	4	12	75	0.05	3.5	12	1.5	5.8	30	2.5	0.01		278500	4987000	18

17	1	1	9	2.5	0.05	3.5	25	1.5	1.7	15	2.5	0.005	275700	4987500	18
20	3.7	6	13	145	0.1	3.5	27	13	13.6	15	2.5	0.005	274800	4987800	18
22	4.2	6	13	255	0.1	3.5	17	16	13.3	15	2.5	0.02	274200	4987800	18
22	9	6	13	215	0.05	3.5	16	15	14	15	2.5	0.005	273600	4987500	18
22	9.8	10	17	595	0.2	3.5	16	27	29.8	15	2.5	0.14	273000	4987100	18
31	62.8	18	30	625	0.2	3.5	16	47	115	40	2.5	0.11	272200	4986900	18
22	10.8	17	15	25	0.7	3.5	42	29	22.8	15	2.5	0.01	271500	4986500	18
20	11.7	3	17	2.5	0.3	3.5	40	18	12.5	15	2.5	0.005	275200	4988400	18
27	18.7	33	27	185	0.6	3.5	34	45	71.1	15	2.5	0.005	275500	4989300	18
24	16.6	24	20	95	0.5	3.5	39	23	18.1	15	2.5	0.16	275700	4989800	18
22	25.8	54	15	620	1.3	3.5	27	186	58.6	15	2.5	0.04	276100	4990400	18
15	8.6	5	16	355	0.4	3.5	31	28	14.2	15	2.5	0.01	274600	4991500	18
20	4	2	15	5	0.2	3.5	26	21	12.6	15	2.5	0.01	274100	4990200	18
20	9.9	20	22	130	0.3	3.5	34	31	16.6	15	2.5	0.03	273600	4989800	18
23	4.7	2	16	5	0.3	3.5	42	10	5.3	15	2.5	0.02	273300	4989300	18
19	3.5	3	16	2.5	0.2	3.5	33	5	4.7	15	2.5	0.01	272900	4988700	18
28	11.5	9	21	45	0.3	3.5	39	16	26.4	15	2.5	0.005	272600	4988300	18
27	3.5	8	13	60	0.5	3.5	38	114	12.9	15	2.5	0.05	274000	4989100	18
24	15.6	13	21	395	0.5	3.5	33	30	29.9	15	2.5	0.03	274500	4988800	18
26	4.3	2	16	50	0.3	3.5	39	7	5.5	15	2.5	0.04	264400	4969500	18
28	42.5	27	27	375	0.5	3.5	36	38	99.5	15	2.5	0.03	263500	4969200	18
31	46.8	17	31	285	0.5	3.5	36	44	103	15	2.5	0.005	262900	4968500	18
28	15.3	8	21	100	0.5	3.5	42	23	35.5	15	2.5	0.01	733200	4967800	17
27	6.9	2	16	5	0.3	3.5	37	6	6.1	15	2.5	0.005	732350	4966450	17
26	11.3	25	18	320	0.8	3.5	36	55	74.9	15	2.5	0.03	731450	4965850	17
22	5.5	3	18	70	0.3	3.5	39	7	4.7	15	2.5	0.005	732800	4965300	17
23	7.2	2	15	2.5	0.4	3.5	41	9	9.6	15	2.5	0.005	731650	4964350	17
25	4.5	2	16	30	0.4	3.5	42	6	5	15	2.5	0.005	731500	4963900	17
25	8.3	4	16	35	0.4	3.5	41	9	8.7	15	2.5	0.005	732300	4964650	17
22	8	4	15	2.5	0.3	3.5	39	5	7.4	15	2.5	0.005	731400	4966600	17
22	10.2	6	16	85	0.6	3.5	36	49	24.6	15	2.5	0.005	730600	4967200	17
26	7.8	11	18	95	0.5	3.5	38	21	19.3	15	2.5	0.005	731400	4967200	17
27	7.6	5	19	35	0.4	3.5	47	15	6.8	15	2.5	0.005	731900	4967800	17
35	47.5	17	32	245	0.6	3.5	34	40	114	15	2.5	0.01	732300	4968500	17
25	6.7	7	18	100	0.4	3.5	39	15	12.6	15	2.5	0.005	733100	4969300	17
26	12.4	5	20	25	0.4	3.5	42	30	33.4	15	2.5	0.005	733250	4969900	17
26	3.4	56	18	820	1	3.5	50	160	19.9	15	2.5	0.005	733000	4970350	17
25	7.5	7	18	295	0.2	3.5	45	49	20.5	15	2.5	0.005	732600	4971000	17
23	6.4	5	15	135	0.8	3.5	44	39	8.8	15	2.5	0.005	732300	4969900	17
26	12.5	7	20	30	0.4	3.5	37	15	32.3	15	2.5	0.005	734500	4970600	17
25	3.1	3	18	55	0.2	3.5	37	7	6	15	2.5	0.005	263100	4970300	18
34	56.2	25	34	500	0.8	3.5	25	69	142	15	2.5	0.005	263000	4972000	18
14	7.9	3	13	65	0.3	3.5	32	13	8.9	15	2.5	0.005	736950	4972450	17
25	47.6	9	30	350	0.4	3.5	29	41	108	15	2.5	0.02	264400	4972500	18
30	74.3	15	33	440	0.4	3.5	28	46	163	15	2.5	0.02	264500	4972900	18
16	7.4	4	14	40	0.3	3.5	32	13	7.9	15	2.5	0.005	264100	4973500	18
25	7.9	34	18	720	0.6	3.5	35	20	42.5	15	2.5	0.005	264300	4974100	18
25	19.9	7	19	50	0.3	3.5	34	21	39.5	15	2.5	0.005	263200	4974800	18
27	71.9	8	22	225	0.4	3.5	29	21	66.5	15	2.5	0.01	264400	4975100	18
17	8.6	3	15	20	0.4	3.5	35	6	4.4	15	2.5	0.005	265200	4975500	18
17	9.1	12	15	90	0.2	3.5	33	29	15.5	15	2.5	0.005	266400	4976400	18
16	7.1	5	13	160	0.3	3.5	38	14	14.9	15	2.5	0.005	266800	4975300	18
25	20.7	10	21	295	0.5	3.5	35	19	46.4	15	2.5	0.02	267000	4974700	18
20	8.4	6	17	60	0.3	3.5	33	16	22.7	15	2.5	0.005	267300	4973700	18
28	52.7	18	29	500	0.6	3.5	28	57	121	15	2.5	0.09	267500	4972800	18
17	18.3	5	19	245	0.3	3.5	30	16	28.2	15	2.5	0.005	267000	4972600	18

19	12.3	3	16	85	0.3	3.5	31	10	20.7	15	2.5	0.005		266300	4972600	18
27	9.6	6	17	245	0.4	3.5	30	20	26.2	15	2.5	0.01		265900	4972500	18
39	11.8	20	17	250	0.7	9	34	11	14	50	2.5	0.11	56	404700	4922200	18
42	7.6	7	14	135	0.3	9	37	5	4.5	60	2.5	0.02	62	416100	4926800	18
27	5.6	2	14	45	0.3	9	23	3	3.2	70	2.5	0.005	60	416100	4926800	18
37	21.8	16	21	940	0.5	9	37	9	10	6	2.5	0.04	56	389000	4929600	18
31	9.4	3	15	790	0.2	12	28	1.5	4.4	6	2.5	0.02	60	389000	4929600	18
30	10.4	5	16	480	0.4	12	27	1.5	8.5	30	2.5	0.02	66	403100	4965300	18
28	8.4	3	15	45	0.2	12	25	1.5	2.1	50	2.5	0.005	63	403000	4967900	18
32	9.8	16	16	155	0.4	11	26	7	11.1	50	2.5	0.01	60	403000	4967900	18
25	7.6	3	14	195	0.2	13	16	1.5	0.9	15	2.5	0.005	60	403100	4965300	18
24	9.4	2	15	360	0.3	9	26	5	4.6	50	2.5	0.03	77	356400	4942300	18
33	7.8	3	14	255	0.3	12	25	1.5	2	50	2.5	0.005	64	390900	5001700	18
31	7.7	3	15	1340	0.2	12	24	1.5	1	50	2.5	0.005	60	392000	5002500	18
32	8.3	3	15	345	0.2	12	26	1.5	1	40	2.5	0.005	63	392000	5002500	18
22	7.5	3	13	415	0.2	17	18	1.5	0.9	15	2.5	0.005	71	392000	5002500	18
32	7.9	3	15	235	0.2	12	22	1.5	1.5	40	2.5	0.005	73	383500	5013200	18
18	8.7	3	12	345	0.2	13	17	1.5	1.4	15	2.5	0.005	60	383500	5013200	18
16	4.7	3	13	120	0.05	13	7	1.5	0.4	30	2.5	0.005	72	384300	5003000	18
17	8.2	2	13	135	0.2	3.5	28	4	2.8	15	2.5	0.005	61	384300	5003000	18
20	7.9	4	13	205	0.2	13	13	1.5	0.7	15	2.5	0.005	61	382800	4972600	18

RECORD	OCCNA
4	Burridge Rd
43	O'Brien, M.J. Shaft
44	Black Donald Graphite Mine
45	Carter Lake
46	Green Lake
48	Kennelly, P.J.
49	Black Lake
50	Coronation
51	Pearse, G.
53	Extra
54	Beidelman-Lyall
55	Dupuis Creek
56	Ross Graphite
57	Westmeath Lot 21, Con A
58	
59	Canadian Smelting and Refining (1974) Ltd.
61	Glamorgan Lot 30, Con 4
62	Galway Township Road Occurrence
63	Dungannon Lots 22-24, Con 10
15	Cardiff Lot A, Con 20
16	Cardiff Lot A, Con 19
17	Cardiff Lot 1, Con 21
18	Cardiff Lot 4, Con 22
32	Torny
30	Sprague
19	Monmouth Lot 32, Con 13
20	Monmouth Lot 28, Con 11
21	Morrison
22	Monmouth Lot 35, Con 15
23	Virginia Graphite
29	McWhirter Lake
35	Raggan Pond
36	Tonkin-Dupont
64	Killaloe-Brudenell
72	Belmont or (Ledyard) Mine
73	Blairton Iron Mine
74	Pershing Occurrence 1
75	Bessemer Mine
76	Childs Mine
77	Rankin Mine
78	Swordfingal Lake
79	Hamlyn Occurrence
80	Stevens Property
2500	Huntingdon Lot 1, Con 14
104	Bonter Marble Company
123	Moira River
125	Grenville Marble Co Ltd
126	Crystallite
127	Ritchie Quarry
128	Barker North Quarry
129	Barker South Quarry
130	Stewart Quarry
131	McMillan Quarry
132	Molloy, D.J.
133	Belmont Calcite (Whitney) Property

134 Maxwells Crossing Quarry
135 Gooderham West - White Lake Road
136 Gooderham South - Hwy 507
137 Bolender's Ltd
138 White Star Mine
141 Pipe Lake
145 Wollaston, Lots 8 & 9, Con 11
150 Insulite
151 Chromasco
152
157 Salerno Lake
158 Salerno Lake
161 Cadieux
169 Paxton Mine
171 Howland Mine
172 Snowdon Lot 17, Con 1
173 Victoria Mine
174 Concretionary Limonite Occurrence
175 Snowdon Lot 19, Con 2
176 Snowdon Lot 25, Con 4
177 B & M Explorations Ltd.
180 Robertson Mine
181 Stufkos Lake Deposit (South Road)
182 Culhane
183 Calabogie
184 Lerond
185 Bluff Point Mine
186 Williams
190 Hinchinbrooke Lot 17, Con 11
196 Minden Lots 11 & 12, Con 1
201 Blithfield Prospect
205 Noranda Property
206 Noranda Property
207 Moira River Conservation Authority Property
208
209 Kelly-Czerenko Property
211 Blackhawk
212 Marmora Township Lot 13, Con 9
214 County Road No 4 - Roadcut Quarry
215 Renfrew East
216 Jamieson Lime 1
217 Jamieson Lime 2
218 Scott
219 Renfrew Town
220 Wright
221 H & H Aggregates (1985-1990)
222 Bedford Quarry
223 Ross Lot 20, Con 6
224 Jamieson, J.M.
225 McGinn Quarry
226 Cook Quarry
230 Guthrie Farm
234 Mountain Grove
416
417
418 LEN LAKE

432 CRAWFORD, R.J.
434 Helena Mine
435 COOK HENRY F
436 International Mine
442 Barrie
445 Star of the East
447 SYMON, W.J.
451 Portland
452 Cornell Property
458 Rogers Mine
470 Morris, Stanley
471 Delta Central
473 Delta Mine
480 Scotch Line
484 Christie Lake
492 Tysick, Robert
493
531
532 Bayne Farm
533 Donaldson
534
547 Howse Iron Mine
551 Glendower Iron Mine
553 Thirty Island Lake Mine
554
558 Hoppins, Florence
562 McGowan, Dan Farm
563 Lenshner Bros. Mine
567 Kirkham Graphite Propery
570 Black Lake Iron Mine
571 Murphy, Leo Farm
572 Thompson, D. Farm
576 Bertrim, Geo Farm
577 Anderson, G.S. Farm
578 Wilson, George (Mrs.)
579 Birch Lake
582 Murphy, John Farm
583 Murphy, James Farm
585 Burns, P. Farm
588 Bawden Mine
589 Brennan, John
590 Murphy - Hickey Deposit
591 Crozier, Rupert
593 Warfel Mine
594
596 Robinson Lead Deposit
599 Devil Lake Deposit
600 Fitzgerald, E. Farm
621 Burridge-Fermoy Road
604 Crozier, A. Property
605 Patterson, W.H. Farm
607 Antoine Mine
609 Butterill, Geo.
610 Patterson, W.H. Farm
611 Wolfe Lake
614 Poole, W.

679	Portage Creek
690	Ompah
691	
705	Breen
736	Bremner
778	Dalhousie Tremolite
779	Watson's Corners
783	Playfair Mine
790	Little Green Lake Deposit
793	Five-Eleven
795	Keles Creek
796	Tatlock Quarry
797	McIlwraith Mine
798	Marble Bluff
800	Darling Deposit
801	Omega Marble Tile & Terrazzo Ltd
802	Bradfords Creek Deposit
803	Yuill
804	Indian River
805	Three Mile Bay
807	Bennett Bay
808	Fahey Mine
809	Lowney Lake
814	
819	
820	Little Birch Lake Mine
880	Bonter Marble Co
898	Actinolite
948	Marshall Bay
961	Fitzroy Station
962	Galetta
1042	Howes, T.R. Farm
1048	Campsall, Ernie Farm
1056	Godfrey
1057	Godfrey
1076	Dillon, Eugene Farm - 1
1079	
1080	Donoghue, J. Property
1082	Hinchinbrooke Brucite
1083	Dillon, Eugene Bush Lots - 2
1085	Dwyer, Joe
1092	Hungerford Quarry
1128	Kane
1134	Conley Mine
1135	Price Mine
1140	Taylor, Ed Farm
1154	
1169	Pulverized Marble Products
1170	
1181	North Brook
1191	Elmtree No 1
1194	Kennebec
1199	Elmtree No 2 & 3
1209	
1210	Elmtree No 4
1245	Arden

1297	Engelhard Minerals
1306	
1313	Donaldson, C.
1314	Hopetown Creek
1315	Lanark Village
1316	
1317	Pharoah, H
1318	Pine Grove
1320	Bennys Creek
1321	Aitkman Lake
1324	Reid Lake
1325	Taylor Lake
1326	Lloyd
1337	Radenhurst and Caldwell Mines
1338	Joes Lake
1341	Lavant Creek
1342	Lynx-Canada
1343	Begin
1344	Robertson
1345	Lavant Copper Deposit
1346	Nelson Lake
1347	Clyde Forks
1349	Lavant Station
1350	Wilbur Mine
1384	
1401	Grainger, Frank
1414	Jarvis Lake
1415	Dufferin Mine
1416	Hobson, Nelson, & Knob
1417	Bankers Lake
1426	Blackburn Quarry
1429	Grenville Aggregate Specialists Limited III
1430	Grenville Aggregate Specialists Limited II
1434	Wallbridge Mine
1435	Cook Mine
1436	Sparling's Mine
1437	Eldorado Copper Mine
1439	Eldorado Talc Mine
1440	Moira River
1444	Stoklosar 3
1445	St. Charles Mine
1448	Brennan Mine
1449	Cameron Mine
1450	Highway 62 (East)
1451	49 Acre Mine
1452	Stoklosar Marble Quarries
1454	Stoklosar 1
1455	Grenville 1
1456	Fox Corners
1457	Stoklosar 2
1458	Bannockburn Pyrite Mine
1462	Sexsmith Mine
1464	Pinewood Park Lake Road Quarries
1465	Pinewood Park Lake Road Quarries
1467	Hazzards Corner Marble Quarries
1468	Grenville 5

1469	Davis Prospect (Occurrence)
1481	Stoklosar Marble
1512	Maloney Mine
1515	Flint, B.
1518	D & L McGraith Marble
1520	Marmoraton Mine
1528	Stoklosar Marble Quarries Ltd - 4
1533	
1537	Bonter Marble
1553	Moira River
1555	Bonter, W.R. and Company
1559	McCann Quarry
1568	Stoklosar
1591	Dibblee Construction Co Ltd
1598	Hoggs Bay
1613	Silver Queen Mines
1618	Orwell Energy Corporation
1651	Olympus Mines
1660	Farrell, P.
1661	Pike Lake
1662	Smith
1700	Globe Graphite Mine
1709	Gibson
1720	
1734	
1735	Smith, W.J. Farm
1736	
1741	MacDonald, Eldon Property
1742	
1744	Mountain Grove
1745	
1747	Hawley Zinc Property
1750	
1751	
1752	Lynx Canada Explorations Limited
1758	
1764	Gray, Percy
1767	Long Lake Zinc Mine
1772	MacDonnell, G.M. Occurrence
1782	
1783	Avery, V. Mrs. Occurrence
1787	
1789	Conboy, L. Farm
1793	McCrimmon, Sam
1796	
1801	
1807	Young, Myron
1810	
1811	
1812	
1816	Crawford, John Prospect
1823	Oso
1824	Sharbot Lake
1825	Sharbot Lake
1826	
1832	Angelstone Limited

1839	
1845	Duffy, Mrs. Tom Farm
1849	MacPherson, George Farm
1854	
1858	Tysick, Duncan
1863	
1870	Small Pond
1873	Fernleigh-Clyde 2
1874	Fernleigh-Clyde 3
1875	Fernleigh-Clyde 1
1876	Ompah
1885	Ram Petroleums Limited
1889	Sunday
1892	Robertsville Iron Mines
1893	Beatty
1894	Moores-Elliot
1924	
1925	
1929	Kideal Aggregate Company
1939	Verona
1943	Wilkinson
1944	McCrearys
1955	Cameron, W.D. Quarry
1975	Grenville 6
2031	Mosque Lake
2036	Longstone Lake
2043	Jones Falls
2048	Chaffey's Locks
2080	Bygrove
2088	Christie Lake Mine Occurrence
2090	Bolingbroke
2108	Little Silver Lake Mine
2138	Steep Rock Resources Inc.
2139	Maberly
2146	Steep Rock Resources Inc
2155	Tamworth
2156	Sheffield
2163	Foley Occurrence
2166	Lennox Mines
2194	Smith and Lacey
2216	Millbridge Station
2223	Campbell Construction Company Limited
2225	
2233	St. Charles Mine
2240	Glanmire Lake Occurrence
2244	Lee Mine
2246	
2247	Baker Mine
2248	Wadsworth Lake Occurrence
2250	Emily Mine
2	Bedore, Hilliard
24	Murphy Road Deposit
25	Highway 508 Deposit
27	Frechette Deposit
40	Pottinger, Sidney
155	Calabogie West Area (Northern Part)

3	Two Island Marble Corp
42	Khartum
199	Kaladar Iron Mines Limited
122	
103	
107	
106	
5	Canadian Pacific Railway - Mica Pit
7	
8	
86	McNab Lead Mine
139	Pawlech Occurrence
140	Burcal Mines Limited
142	
143	Burcal Mines
144	John McVittie
147	
148	
149	Stone Occurrence
154	Pershing Occurrence 2
164	Round Lake Dolomite
170	Belmont Lot 17, Con 2
229	Cashel Lot 16, Con 8
238	Morrison, Thomas Quarry
239	Gunter
244	Hinchcliffe Lake
259	Gunter Lake West Side, Access Road
260	Gunter, Access Road
261	Carswell
262	Baker and Wanamaker Lot (near Hartsmere)
263	Belmont, Lot 20, Con 1
264	Tudor, Lots 8,9,10, Con 18
266	Madoc Lot 21, Con 6
267	Stoklosar ??
269	Palmer Mine
275	Arena Road
289	Grenville Aggregate Specialties Ltd.
290	Grenville Aggregate Specialties
299	Madoc Lot 29, Con 5
300	Madoc, Lot 19, Con 5
344	Baptiste Lake
350	Barr, P.A.
356	Barton Magnetite
379	Biederman, Albert
394	Bloor Mine
2323	Bowen Corner (Jamieson Lake)
2331	Briar Court Mines (1968)
2345	Bronson Station
2365	Burnt River
2372	Calabogie Lake Marble Belt
2377	Camel Chute
2415	Cashel Lot 13,14, Con 13,14
2436	Clontarf Area/Opeongo Road
2438	Clue, Joseph (Actinolite)
2446	Colton Lake Area
2450	Coltson Lake

2454 Conlin Lake ?
2471 Crystal Lake Road Cut
2495 Detlor
3007 Dog Bay
3012 Dore
2506 Eels Creek Peristerite
2515 Elliott's Mine
2520 Eneas Creek
2553 Flaherty, F. Farm
2573 Furnace Falls
2563 Galloway (Deer) Lake
2567 Cobalt Occurrence
2604 Goshen
2611 Grant Lake
2616 Green Corners
2628 Near Hadley
2640 Hardwood Lake-McArthurs Mills Road
2641 Harling Farm
2643 Harris Lake
2661 Hwy 41 Roadcut
2666 Hill, R.A.
2677 Hopkins Mine
2679 Horne (Baptiste)
2685 Hughes, R. Farm
2804 Lorwall Lake
2808 Lynch
2823 Madawaska River Mouth
2857 Cardiff Lot 26, Con 22
2860 Methuen Lead
2867 Mill Lake
2908 Morrison
2913 Morrow Creek
2925 Mount Jamieson Southeast
1525 Lanark County Road 19 Roadcut
1558 Highway 508 Roadcut
2928 Plevna (Sand) Lake
2929 Easton Minerals Ltd Quarry
2953 Concession Road 6 Outcrops
2954 County Road 16 Outcrop
2955 County Road 2 Outcrop (Northside)
2962 McGinnis Lake
2991 Newfoundout Area Marble Belt
3037 Anstruther Lot 32, Con 17
333 Burleigh Lot 12, Con 5
3043 Davis Limestone Property (1955)
3045 Young-Byers Calcium Deposit
3074 Old Arnprior Quarry
3081 Ormsby Station
197 Ashdad-Renprior Marble Belt
2910 Dillon (Pike) Lake Area Marble Belt
3090 Dillon (Pike) Lake Area Marble Belt
3082 Bob Lake
3083 Anson Lot 11, Con 2
3084 Anson Lots 11-12, Con 3
3085 Madawaska Hill-Burnstown Roadcut
3086 South Burnstown Area

3087 Bagot Township Lot 28, Con 6
3088 Bagot Township Lot 18, Con 10
3089 Bagot Township Lots 22-23, Con 12
41 Calabogie West Area (Northern Part)
352 Blithfield Township Lot 14, Con 1
3091 Mountain Chute Section Marble Belt
3092 Mountain Chute Section Marble Belt
3093 Centennial Lake Area B" Marble Belt"
3094 Centennial Lake Area B" Marble Belt"
3095 Centennial Lake Area A" Marble Belt"
3000 Highway (Hwy) 41 Area Marble Belt
2413 Boundary
3096 Cardiff Lot 29, Con 11
3097 Cardiff Lot 31, Con 11
3098 Rinaldi, Reno
3099 Cardiff Lot 1, Con 22
3100 Foster Rapids (York River)
3101 Chapman Lots 119-120, Con A
3102 Chapman Lot 119, Con B
3103 Sequin River
3104 Rose Island & Five Mile Bay Occurrences
3105 Croft Lot 21, Con 6 Occurrences
3106 Croft Lot 20, Con 7
3107 Croft Lot 35, Con 10
3108 Croft Lot 35, Con 11
3109 York River
3110 West Quarry
3111 Sixty-Two
3112 Stimears Lake
3115 The Canadian Marble Co. Ltd
3113 Winfield Farm
3114 Many Island Lake
3116 Foley Township Lot 31, Con 11
3117 Glamorgan Township Lot 17, Con 1
3118 Snowdon Lot 32, Con 5
3119 Contau Lake - Kinmount Road
60 Newfoundout Area Marble Belt
3125 Deloro West Zone Property
3123 Rahm Property
3122 Crowe Lake Occurrence
3121 Tudor Gabbro Occurrence
3120 Brewers Mills Occurrence
3127 North Burgess Lot 8-9, Con 6
3128 North Burgess Lot 3-4, Con 6-7
3129 Charleston Lake Occurrence
3130 York River Skarn Zone
3131 Deans Island Occurrence
3132 Bastard Township
3135 Mangrove Bay Resources Inc.
3136 Hwy 7 - Mountain Grove Outcrop
3137 County Road 21 Outcrop
3138 County Road 9 Outcrop
3139 County Road 9 Outcrop
3140 Park Reserve Outcrop
3141 Park Reserve Outcrop
3142 Dungannon Lot 2, Con 11

3143	Faraday Lot 28, Con B
3144	Vansickle Dolomite
3145	Pakenham Lot 4, Con 5
3146	Pakenham Lot 5, Con 4
347	Robinson, Sam
3147	Pakenham Lot 24, Con 4
3148	Palmerston Lot 27, Con 7
3149	Hwy 17 Roadcut
1949	Hagerman Lot 32, Con B
213	Horton Lot 5, Con 4
3150	Bonnechere River
3151	Lot 140, Con A
3152	Lot 120, Con B
3153	Many Island Lake Rd.
3154	Otter Lake Occurence
3155	Bob Creek Occurence
3156	HWY 35 Road-cuts
3157	HWY 35 Road-cuts
3158	HWY 35 Road-cut
3159	HWY 35 Road-cut
3160	HWY 35 Road-cut
3161	HWY 35 Road-cut
3162	HWY 35 Roadcuts
3163	HWY 35 Roadcut
3164	HWY 35 Roadcut
3165	Lot 26, Con 1
3166	Buller Occurence
3167	Slate Falls
3168	Kargus Lake
3169	Lot 28 Con 1
3170	Lot 3 Con 10
3171	Lot 6 Con 10
3172	Lot 1 Con 6
3173	Lot 14 Con A
3174	Lot 1 Con 1
3175	Dochart Creek Bridge Occurrence
3176	Lot 15 Con 5
3177	East of Goshen Station
3178	Corporation Quarry
3180	Smith Lake
2872	Horseshoe Bridge
3181	Minden Lot 18, Con 13
3182	Monmouth Lot 6, Con 10
3183	Around Tory Hill
3184	Monmouth Lot 27, Con 14
3185	Best, R.W.
3186	Hybla Village
3187	Schutt - Hwy 514 Road-cut (East Side)
3188	Ross Lot 21, Con 4
3189	Ferguson Quarry
3190	Ross Lot 23, Con 4
3191	Ross, Lot 16, Con 6
3192	Ross Lot 24, Con 6
3193	Ross Lot 7, Con 9
3194	Ryerson Lot 30, Con 5
3195	Spence Lot 15, Con 9

3196 Spence Lot 3, Con 14
3197 Wilberforce Township Area Marble Belt
3198 North Algona Boundary
3216 Shores of Jack Lake
3268 Ridge Prospect
3269 Ridge Extension Prospect
3272 Robinson Mine
3279 Roquette Lake
3280 Wolfe Rapids
3284 Ross Deposit
3285 Foresters Falls
3293 Blue Marble
3297 Vennor Creek Property
3298 Union Creek Lead Mine
3301
3306 Galway Lot 7, Con A
3312 Galway Lots 23 & 24, Con 14
3314 Galway Lot 15, Con 15
3320 Salmon Road Property
3333 Smart Mine
3345 Sebastopol Lot 26, Con 1

ALTNA

Froberisher Exploration Co Ltd (1948-1953)
Campbell, R.; Campbell-Stewart Property
Green Lake Section Marble Belt

Moriarty
Letterkenny

Salerno Lake

Stratmat (1955)

Tonkin-Dupont
Stoney Lake

National Graphite

Buffalo Union Furnace Co. Ltd.; Canadian Furnace Co. Ltd.; Nichol (Nickel) Pit; Consolidated Howey Gold Mines
Big Ore Bed; Canada Iron Mines Ltd
Trent River Iron Limited
Mineral Range Iron Mining Company; Canada Iron Corporation; Canada Iron Mines Limited; Frobisher Limited

Rankin Pit

Hastings Marble Products

Shaw Lake; Lucid Lake
Crystalline Stone Products Ltd; Carfrae, Alfred Farm; Gable Road Dolomite
Gaebel, Wm Farm; Central Ontario Granite and Marble Company (1905)
Rose Marble Quarry; Bancroft Pink Marble Property; Rose Fantasia; Ontario Marble Quarries Ltd
Hastings Road West
Ontario Marble Quarries
MacMillan Quarry; Bancroft Marble Quarries Ltd; Ontario Marble Quarries Ltd

Bonter Marble Company Quarry; Northumberland Mines Ltd.; Engelhard Minerals & Chemicals Corp. - Canadian White Pigme

Curry, A.; Irondale River
Contau Lake

Bolender Brothers; Eagle Lake Quarry; Gallant, Collin (owner 1985)
Bolender Brothers

Greene, H.G.; Goshawk
Haley Mine; Old Gould Quarry (Lot 20 W); Dominion Magnesium Ltd (1942); Canadian Dolomite Co

Renprior Deposit; Renfrew Zinc Mines

White Lake

Caldwell Mine; Coe Mine; Campbell; No. 4

Black Bay

Barryvale

Nihil Mine
Platinova Resources Ltd (1986-1987); Cominco American Inc (1987); Deloro West ?; Moira River and Highway 7

Jamieson Quarry; Corporation of Renfrew
Third Line Quarry

Payne

Canadian Granite Co of Ottawa (1890); Lime-kiln Quarry
Haley Station
Canadian Dolomite Co (1960's); Smith Quarry

Forester Falls
Queens Line

TROUT LAKE

Hill Shaft; Valley Shaft; Bill Shaft
EMREX MINING
BARRIE SYNDICATE; MAZINAW BASE METALS
Marble Rapids; Sanford Estate
Star Gold Mine

Portland Property; Victoria Graphite Inc. (1986)

Zainesville Iron Mine
Kingston Mica Mining Company Limited; Ontario Mica Mines

Morey; Desert Lake
Richardson, H.
Hastings, Walter Farm
Desert Lake Property; Mining Corporation of Canada Ltd (1919); Frobisher Limited (1952); Stewart Lake Resources Inc
Sangster Lake; Bethlehem Mining Company

Williams-Adams

Crow Lake
Wood-Land Mineral Company

Murphy, Nicholas; Potspoon Lake

Green Bay (Bobs Lake)
Bawden Graphite Mine; Birch Lake Area; Stewart Lake Resources Inc (1987)
Long Pond Lake
Consolidated Lead Mines (1936)

McNally, H. Farm

Robinson Group; Dominion Mining & Smelting Corp Ltd (1928)
Connors - Daley; Stoness - Kent; Orser, S. (1910)
Fitzgerald, James
Butterill, George; Douglas, W.H.; Burridge Marble Belt; Houston Management Corporation Ltd
Burridge Road
Hunt - Brooke
Taggart, T. (1895); Webster & Jones; Lewis (1906; Kent Brothers (1907)
Botting, B.
Patterson, Andrew

Hwy 508 Power Line

Dalhousie Mine

Barnes; Steep Rock Resources; Angelstone Limited; Temple White
Tatlock Marble
North Lanark Granite and Marble Quarries Limited; Angelstone Limited; Lanark Green

Tatlock; Lanark Blue Marble

White Lake
Bell Mine; White Lake
White Lake Area

Allanhurst
Hastings Marble Products LTd
Madoc Marble Quarries; Young, C.R.; Omya Inc (1974); Pleuss-Staufer
Johnson Sadler
Fitzroy Harbour Quarry

Donahue, J.

Tweed Marble Quarry; Grant, J.; Trudeau; Ellis

Connolly Mine; Henderson Mine; Canada Talc Industries Limited

Kaladar Marble Quarry

Elm Tree Road; Emery; Natto Mining Corp Ltd (1963)

Smith, John

Frobisher

Lynx-Canada
Caldwell, T.B.; Carndesson

Morden, W.
Stoklosar Marble Quarries; Freeman Quarry

Dominion Mine

Madoc Marble Quarries Ltd (1961-1965)
Hastings Marble Products; Stoklosar Black
Red Hematite Mine; Coe, Mitchell & Co. (1880); Bethlehem Iron and Steel (1880); Trent River Iron Ltd (1952)
Cook and Thompson Mine
Fox Occurrence
Coe Iron Mine (1903); Moores Mine; Medina Gold Mining Co; Ontario Copper Co
Eldorado Mining and Milling Company; Eldorado Talc and Silica Company; Eldorite Limited
Hastings Marble Products; Grenville Aggregate Specialties Limited
Stoklosar Marble Quarries; Highway 62
Walsh Farm

Madoc Marble Quarries; Grenville Aggregate Specialties Limited (1965)
Sidmag Property; Stratmat Ltd (1955-56)
Curtis Quarry
Stoklosar Marble Quarries
Hastings Marble Products (1962-1965); Grenville Aggregate Specialties (1965-1974)
Madoc Marble Quarries; Grenville Aggregate Specialists; Stoklosar Pink Quarry
Stoklosar Marble Quarries
Jarman Pyrite Mine (1901-1907); Mundic Mine (1918-1919); American Madoc Mining Company (1900)
Cleveland & Brown
Grenville 4 East; Hastings Marble Products; Grenville Aggregate Specialists
Grenville 4 West ; Hastings Marble Products; Grenville Aggregate Specialists
Madoc Marble Quarries; Stoklosar Marble Quarries
Madoc Marble Quarries; Grenville Aggregate Specialties Ltd

Davies Prospect
Grenville Aggregate Specialists Limited
Young, C.R.

Marmoraton Pit
Horton Quarry

Bonter 1; Crowe River Quarries
Malone
Bonter 2; Malone Quarries; Guillet, R. (option, 1990)
Hastville; Malone; Hastings Marble Products Ltd

Connell, R. (1903); Dominion Improvement Development Co (1905)
Timmins Mine
Stanleyville; Perth Deposit
Northern Vermiculite Limited; Norden Vermiculite Ltd; Perth Deposit
Smith, R.; New York Mica Co
Baker
International Mining Co of New York (1870-1875); Globe Refining Co (1980-1911); Globe Graphite Mining and Refining Co (19
Wildman

Lynx-Canada Explorations Limited

Rideau Aggregates Limited

Lynx-Canada Explorations Limited

Richardson Zinc Mine; Olden Zinc Mine; Lynx-Canada (1973-1974)
Neadow (Neadon), Alfred Farm; Corval Corporation Limited

Harris, J.

Sharbot Lake

Cummings, J.A.; Ram Tremolite Prospect

Mary Mine; Lizzie Mine; Mississippi

Carleton Lime Products Co
Madoc Marble Quarries
Victory Showing

Christie's Lake
Sucker Lake

Greer

General Electric Company

Horseshoe Mine

Gilmour

CPR Railway Cut
Bailey Property
Ashdad-Renprior Area Marble Belt

Highland Marble Prospect; Trisar Resources Limited (1982-1985); Pearse, G.H.K.

Consolidated Mining & Smelting Co of Canada; Schlievert Property

Burcal Industrial Minerals Ltd

Ontario Marble Quarries
Trumble Occurrence
Jackson

St. Pierre Lake; Calabogie Asbestos Mining Co Ltd

Stoklosar

McAllister, J.
Maxwells Crossing
Biron Bay Gold Mines Ltd; Tory Hill ? (9 miles from Tory Hill ??)
Golden Lake Quarry

Cavendish Uranium (1955)
Ontario Marble Quarries

Legris, James Property

Morrison, Mr.
Crystal Lake Fluoborite

Stony
Elliott, J.J.

HWY 17 Marble Cut

The Canadian Marble Co Ltd

Highway Forty-One Area Marble Belt
Lomas, L.V. Chemical Co Ltd.

Methuen Calcite Vein ; Parker & Baker

Spruce Lake

Calabogie West Area Marble Belt (Southern Part)

Graham Mountain Ridge

Bob's Lake

Opeongo Road

American Nepheline Ltd (1957); Petroglyphs Provincial Park Claims
Stony Lake Calcite
Eckford Quarry?; R. McDonald & Son

Highway (Hwy) 132/Opeongo Road

South Burnstown Area Marble Belt

Leclaire Lake Area
Leclair Lake Area
Wilson Lake Area; Matawatchan Road

Limekiln Quarry

The Canadian Marble Co Ltd

Opeongo Road
Hwy 7 Roadcut (south side); Easton Minerals Inc. (option)
Cominco Ltc

Outlet Post
York River Tactite Zone

Dubblestein, A.
Price Road Outcrop

Robson, B.C. - 1964; Canadian White Pigments Corp - 1977; Preussag Canada Ltd - 1980; Northumberland Mines ?

HWY 35 Occurence
Lutterworth mineral collecting Site 7
Lutterworth Mineral Collecting Site 9
Lutterworth Mineral Collecting Site 11
Lutterworth Mineral Collecting Site 12
Lutterworth Mineral Collecting Site 13
Lutterworth Mineral Collecting Site 14
Lutterworth Mineral Collecting Site 15
Lutterworth Mineral Collecting Site 16
Lutterworth Mineral Collecting Site 17

Lot 26 Con 7

Rainbow Exploration and Development Syndicate (1964); Ranibow Marble Co Ltd (1965)

County Road 30 Road-cut
County Road 30 Road-cut

Reid Farm (III/18); W.S. Moore Company of Duluth (1951); Syngenore Explorations Ltd (1969); Minnesota-Huron Iron Co Ltd.
McMurray Ridge Road Prospect; Chalcopyrite Prospect; Murphy Corners Roadcut Skarn Showing; Kennco Explorations (Cana
McIntyre and McBelton (1908); Adams and Stoness (1909)

St. Joseph

St. Joseph Explorations Ltd

TOWNSHIP
Bedford
Brougham
Brougham
Brougham
Brougham
Brougham
Brougham
Brougham
Brougham
Griffith
Lyndoch
Lyndoch
Ross
Westmeath
Snowdon
Glamorgan
Glamorgan
Galway
Dungannon
Cardiff
Cardiff
Cardiff
Cardiff
Faraday
Faraday
Monmouth
Monmouth
Monmouth
Monmouth
Monmouth
Carlow
Monteagle
Monteagle
Brudenell
Belmont
Belmont
Belmont
Mayo
Mayo
Mayo
Mayo
Mayo
Mayo
Huntingdon
Madoc
Marmora
Cashel
Faraday
Faraday
Faraday
Faraday
Dungannon
Dungannon
Dungannon
Belmont

Glamorgan
Glamorgan
Glamorgan
Guilford
Dysart
Faraday
Wollaston
Cavendish
Ross
Lyndoch
Glamorgan
Snowdon
Admaston
Lutterworth
Snowdon
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Bagot
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Hinchinbrooke
Minden
Blithfield
Marmora
Madoc
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Horton
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Ross
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Olden
ASHBY
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Barrie
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Elzevir
Elzevir
Fitzroy
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Hungerford
Huntingdon
Huntingdon
Huntingdon
Huntingdon
Kaladar
Kaladar
Kaladar
Kaladar
Kennebec
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Lake
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Montague
North Burgess
North Burgess
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North Burgess
North Elmsley
North Elmsley
North Sherbrooke
Olden
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Palmerston
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Portland
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Ramsay
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Rawdon
South Canonto
South Canonto
South Crosby
South Crosby
South Sherbrooke
South Sherbrooke
South Sherbrooke
South Sherbrooke
South Sherbrooke
South Sherbrooke
South Sherbrooke
Sheffield
Sheffield
Sheffield
Sheffield
Storrington
Tudor
Tudor
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Tudor
Tudor
Bedford
Bagot
Bagot
Bagot
Bagot
Bagot

Griffith
Griffith
Kaladar
Olden
Olden
Olden
Olden
Oso
Palmerston
Palmerston
McNab
Spence
Spence
Hagerman
Lount
McKellar
Ferguson
McDougall
Minden
Belmont
Belmont
Belmont
Cashel
Dungannon
Cashel
Cashel
Cashel
Cashel
Blithfield
Mayo
Belmont
Tudor
Madoc
Madoc
Madoc
Madoc
Madoc
Madoc
Madoc
Madoc
Herschel
Glamorgan
Anstruther
Wilberforce
Christie
Dungannon
Cavendish
Dungannon
Somerville
Blithfield
Matawatchan
Cashel
Sebastopol
Elzevir
Admaston
Dungannon

Faraday
Galway
Dungannon
Herschel
Horton
Burleigh S
Ross
Lyndoch
Galway
Snowdon
Cavendish
Galway
Horton
Brudenell
Dungannon
Monmouth
Raglan
Faraday
Ferguson
Brougham
Burleigh S
Galway
Herschel
Galway
Brudenell
Horton
McNab
Cardiff
Methuen
Foley
Mayo
Matawatchan
Lyndoch
Bathurst
Blithfield
Clarendon
Griffith
Lanark
Lanark
Lutterworth
Burleigh S
Sebastopol
Anstruther
Burleigh S
Burleigh S
Burleigh S
McNab
Limerick
Admaston
Admaston
Brougham
Anson
Anson
Anson
McNab
Bagot

Bagot
Bagot
Bagot
Blithfield
Blithfield
Brougham
North Canonto
Brougham
Matawatchan
Matawatchan
Grattan
Blithfield
Cardiff
Cardiff
Cardiff
Cardiff
Carlow
Chapman
Chapman
Christie
Cowper
Croft
Croft
Croft
Croft
Dungannon
Dungannon
Dungannon
Dungannon
Faraday
Faraday
Ferrie
Foley
Glamorgan
Snowdon
Glamorgan
Grattan
Marmora
Marmora
Marmora
Lake
Pittsburgh
North Burgess
North Burgess
Front of Leeds and Lansdowne ?°Rear of Leeds and Lansdowne ?
Dungannon
South Crosby
Bastard
Mayo
Olden
Ramsay
Ramsay
Ramsay
Ross
Ross
Dungannon

Faraday
Methuen
Pakenham
Pakenham
Monteagle
Pakenham
Palmerston
Ross
Hagerman
Horton
Horton
Lount
Lount
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Lutterworth
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Lyndoch
Lyndoch
McDougall
McDougall
McDougall
McKellar
McKellar
McKenzie
McNab
McNab
McNab
McNab
Mayo
Minden
Minden
Monmouth
Monmouth
Monmouth
Monteagle
Monteagle
Raglan
Ross
Ross
Ross
Ross
Ross
Ross
Ryerson
Spence

Spence
Wilberforce
North Algona
Methuen
Wollaston
Wollaston
Bedford
Matawatchan
Matawatchan
Ross
Ross
Galway
Galway
Galway
Galway
Galway
Galway
Galway
Cavendish
Sebastopol
Sebastopol

CON_LOT	
8/19 W (west of Rd)	
	Mar-16
3/17; 3/18	
6/15; 6/14	
6/17; 6/15; 6/16	
	09-Aug
	Oct-13
	Oct-14
18/27	
14/32	
2/1; 2/2	
15/24	
10/9 W	
A/21	
	Jan-17
1/3; 1/2; 2/2; 2/3; 3/2; 3/3	
	Apr-30
13/16; 13/15	
10/22; 10/23; 10/24	
20/A	
19/A S	
	21-Jan
	22-Apr
2/2 S	
	01-Dec
13/32	
	Nov-28
14/35 S	
15/35 S	
16/34; 16/35	
	08-Oct
	May-16
13/23; 13/24	
	13-Sep
1/19 NW	
1/7; 1/8	
4/1; 4/2 S	
6/4 - No.4; 6/5 - No.4; 6/3; 6/2 - No.2 & No.3; 7/1 - No.1	
9/11 S; 9/12 S	
9/10 S	
5/5; 5/6	
7/8 N	
	Sep-13
	14-Jan
	09-Jan
	Oct-14
7/19; 6/18	
12/3; 12/4	
12/2 S; 12/1 S	
WHR/42	
WHR/41	
10/29; 10/30	
	Oct-28
	Mar-28
6/31 NE & NW; 6/32	

6/2; 5/2 ?	
	May-19
	Apr-25
4/24; 4/25	
	Aug-19
	10-Nov
11/8; 11/9	
4/23; 4/25; 4/22; 2/14 NW	
5/20 E; 5/20 W; 6/20 W	
14/13; 14/14; 14/15 S	
1/4; 1/5; 1/6?	
2/32; 3/31; 3/32	
3/1 W; 3/2 W; 4/1 E; 4/2	
6/5; 6/6	
	Apr-26
	Jan-17
	Jan-20
	Feb-19
	Feb-19
	Apr-25
	Apr-27
	01-Jan
	Jun-28
7/21 W	
9/16 E; 8/16 SW	
	Sep-23
11/16; 10/16	
	Nov-22
	Nov-17
1/11; 1/12	
	Jan-13
	Nov-19
	Jan-19
	Oct-15
	Aug-13
	Oct-16
8/7; 8/6; 8/5; 8/8	
	Sep-13
3/14 E; 3/13 E	
2/9 NE	
	02-May
	Jan-21
	Jan-14
lot behind Roman Catholic Church	
	Mar-25
	Apr-24
4/9 E	
6/20 E	
	10-Oct
6/19 E	
6/20 W	
	04-Mar
2/20; 3/20	
	08-Jan
10/1; 10/2; 10/3; 10/4; 10/5; 11/1; 11/2; 11/3; 11/4; 11/5; 12/1; 12/2; 12/3; 12/4; 12/5; 13/1; 13/2; 13/3; 13/4; 13/5; 14/1; 14/2; 14	
14/17	

5/19; 5/20	
6/20 N; 6/19; 7/20	
6/25; 6/26	
9/8; 9/6; 9/7; 9/9; 9/10; 8/10	
9/29; 10/29; 10/27; 10/28; 9/27; 9/28	
10/24 S; 9/25; 10/25; 10/26	
	Jun-20
	01-Mar
	01-Oct
	Mar-14
9/23; 9/24	
9/27; 9/28; 10/25	
10/23; 10/24; 10/25	
1/7; 1/9; 1/10	
3/1; 3/2; 3/3; 3/4	
4/1; 4/2; 4/3	
	04-Feb
	Oct-22
	Nov-23
	Nov-25
	Dec-26
	01-Apr
3/6; 2/6	
2/5 S	
	02-May
3/1 N	
3/5 N	
3/15 E	
4/4; 5/4	
4/8 (2 locations on the NW shore of Sangster Lake/- islands during times of high water)	
	04-Dec
	Apr-17
	Apr-31
	Apr-32
5/1 NW	
	05-Jan
	May-13
	May-14
	May-26
	06-Feb
	Jun-16
6/17 W	
	Jun-20
7/5 NW	
	07-Jul
7/18 N	
	08-Jun
8/9 E	
8/18; 8/19 (assessment files - Douglas); 9/18 (assessment files - Douglas); 9/19 (assessment files - Douglas)	
8/19 W (E OF Rd)	
8/21 N	
9/7 E	
	Sep-19
9/20; 9/21	
	Sep-21
	11-Oct

	Jan-40
	Feb-37
2/38; 2/39	
	Apr-38
SWR/31	
1/4; 1/5; 1/6; 1/7; 2/4; 2/5; 2/6; 2/7	
	01-Aug
	04-Jan
	Feb-22
3/4; 3/5	
3/25; 4/26	
4/3; 4/4; 4/5	
	04-May
4/7; 3/7	
4/23; 4/22	
	05-Jun
	May-23
5/25 E	
	08-Sep
9/24; 9/22; 10/21	
	Nov-23
	Nov-26
	Nov-21
5/10; 5/11	
	May-21
	Aug-34
1/7 E	
6/3; 6/2	
	Mar-25
8/20; 8/21; 9/20; 9/21; 9/22; 9/23	
8/21; 8/22; 8/23; 10/25; 10/26	
1/1 NE	
	02-Mar
	03-Mar
	03-Mar
	10-May
	Oct-18
11/4 W	
12/3 W	
12/4; 12/5	
	12-Jun
14/11; 13/11	
	14-Sep
14/15 W - Conley Mine; 14/14 E - Henderson Mine	
14/15 NE	
	14-Dec
	05-Feb
7/10; 7/12	
7/10; 7/11; 8/10; 8/11	
	Nov-32
	01-Oct
2/11 W	
	03-Nov
	04-Nov
	Apr-14
	Aug-14

	01-May
10/15; 10/16; 10/17; 10/18	
	01-Jan
	01-Nov
	02-Feb
2/24; 2/25	
4/25 W	
5/2; 6/3 ?	
	May-24
	Jun-18
	Aug-24
	Sep-21
	Dec-15
3/22 W; 4/22 E	
	04-Dec
	05-Dec
	07-May
	07-May
	07-May
	07-May
	07-Aug
8/20; 8/21	
	11-Sep
12/4; 13/4	
	10-Apr
	12-May
1/11 SW	
1/18 W	
2/19; 2/18; 1/19	
	02-Feb
5 1	
	05-Mar
5/4 E	
	05-Dec
	May-15
	May-17
5/17 NE	
5/20; 4/20; 4/21; 5/21	
	May-22
	06-Apr
6/4; 6/5	
	06-Jul
	06-Sep
	06-Sep
	06-Oct
	06-Oct
	Jun-19
6/19 W	
	Jun-20
6/22 E	
	Jun-25
	07-Aug
	08-Feb
	09-Feb
	08-Dec
	Aug-15

9/10 S	
	May-21
	Jan-18
	Feb-18
3/12; 3/13	
5/4; 5/5; 6/4; 6/5	
8/6 SE	
	Aug-13
	04-Sep
	Oct-15
11/16 NW; 11/17 SW ; 10/16 NW	
	Oct-17
	Oct-13
5/28; 5/29	
	04-Nov
5/13 E	
5/24; 5/23; 5/25; 5/26	
8/17 N; 8/18 N	
9/14; 9/15 N; 9/16 N	
9/16; 9/17	
	Sep-17
6/21; 6/22	
	Sep-25
	05-Jan
	Jan-16
2/8 E	
	02-Sep
	Feb-14
	Feb-15
	Feb-19
	03-Mar
3/4 NW	
	03-Aug
	03-Sep
3/10 SW	
	04-Aug
4/19 SW	
5/3; 6/3	
6/7 NW; 7/7 W	
	09-Dec
9/24 E	
	09-Dec
	Oct-18
11/21 E	
5/1; 6/1	
	03-Sep
1/3 E	
	Jan-13
1/12; 1/13	
1/13; 2/13	
	Jan-25
	Feb-26
	03-Oct
	04-Sep
	04-Dec
	Apr-21

	05-Feb
	05-Nov
	May-23
	06-Dec
6/27 W	
	08-Dec
	Jan-20
	Feb-24
	Feb-24
	Feb-25
2/24; 3/25; 3/28	
6/6; 5/6; 7/6	
	Aug-26
9/3; 9/4	
	Sep-28
	Sep-29
13/5; 10/5	
	10-Jul
11/9; 11/10	
	12-Sep
14/25	
	02-May
	04-Aug
	14-Jan
1/1; 1/2	
	Jun-26
	05-Apr
	Aug-16
	01-Mar
3/18; 3/19; 3/20	
3/3; 3/4; 3/5; 4/3; 4/4; 4/5	
	Apr-16
9/?	
10/15; 11/14	
	Nov-18
	06-Jan
9/4; 9/5	
	14-Aug
15/10; 16/10; 16/11	
15/15	
4/18; 4/19	
	Aug-16
	Sep-21
	Nov-19
14/26	
18/22	
18/16	
18/18	
	19-Mar
19/7; 19/8	
5/34 W	
	Sep-18
10/18 E	
	Nov-18
8/29; 8/30; 7/29; 7/30; 9/29; 9/30	
	Dec-24

13/10 S (unsurveyed); 13/11 S (unsurveyed)	
4/28 - approx.	
5/5 SW	
	03-Oct
	03-Oct
	03-Aug
	03-Jul
7/3 NW	
	Jun-24
	Jan-28
11/9 E	
	May-33
14/18; 13/19	
A/32	
1/26; 2/26; 2/27; 2/28; 2/29	
9/7 N 1/2; 10/7	
	08-Dec
	Nov-15
	03-Feb
	05-Feb
6/23; 6/22; 6/24	
2/17; 2/18 ?	
	Aug-16
10/27 ?; 11/30 ?	
4/29 SE	
	Mar-28
	Apr-25
	Aug-17
	Apr-22
A/23E; A/24W	
1/20 (400 m SSW of Cordova Mines Baseball Field)	
18/8; 18/9; 18/10	
	Jun-21
	Jun-21
10/10 W	
	06-Mar
	May-21
	May-21
	May-29
	May-19
8/16 S	
	06-May
15/27 S; 15/28 ; 15/26 ; 15/29 ; 14/29; 14/28; 14/27; 16/23 S; 16/24 S; 16/25 S; 16/26 S; 16/27 S; 16/28 S; 16/29 S/- North Zon	
18/20	
	12-Sep
	10-May
10/16 S	
10/29; 10/30	
9/8 N	
3/16; 3/17; 3/18; 3/19; 2/16; 2/17; 2/18; 2/19	
5/22; 5/23	
14/13; 14/14; 13/13; 13/14	
6/32; 6/33; Range C/65 N	
	05-Mar
	Sep-17
13/27	

6/3 ?	
	Oct-25
	Aug-19
4/23; 4/24; 4/25; 5/23; 5/24; 5/25	
	Jan-16
8/3 S; 8/4 S	
9/7 W	
14/23	
	Sep-18
	Jan-17
13/13; 13/14; 14/13; 14/14	
14/16	
	04-Jan
	13-Oct
7/25 (West of)	
	07-Dec
	Feb-18
EHR/38; EHR/39	
	02-Oct
19/24; 19/22; 19/23; 19/25; 19/26	
11/10 E (unsurveyed)	
10/17 W	
3/22; 3/23	
	18-Oct
Range B s/229	
1/19 E	
D/4	
22/26; 23/26; 23/27; 23/28	
	01-Feb
	Mar-17
1/1; 2/1	
	Sep-16
	02-Jan
	11-Aug
3/21; 3/20; 3/22	
	Dec-37
? (unsurveyed)	
7/8; 7/10	
	Aug-20
14/13	
11/6/(unsurveyed)	
1/33; 1/34; 2/33; 2/34	
17/32	
	05-Dec
10/9 SE	
10/7 (unsurveyed)	
?	
EHR/38	
7/1; 8/1; 7/2; 8/2; 6/1; 6/2; 5/1; 5/2; 4/1; 4/2	
13/11; 13/12; 13/13; 14/11; 14/12; 14/13	
Range D/3 N&S; Range D/2 N&S; Range D/1 N&S; Range D/4 N&S; Range D/5 N&S; Range D/6 N&S; Range D/7 N&S; Rang	
	01-Dec
2/11 S	
3/11; 3/12	
2/17; 1/15; 2/15	
1/14; 1/15	

Jun-28

10/18?; 11/18?

12/22; 12/23

1/22; 1/23

Jan-14

1/18; 1/15; 1/16; 1/14; 1/17; 1/19; 1/20; 1/21; 2/14; 2/15; 2/16; 2/17; 2/18; 2/19; 2/20; 2/21; 3/14; 3/15; 3/16; 3/17; 3/18; 3/19; 3/

9/17; 9/16; 9/18; 9/19

4/34?; 2/34; 2/35; 2/36; 3/34; 3/35; 3/36

13/16?; 14/16; 14/15; 14/17; 14/18

11/14 (sample location MA8A-1); 10/10; 10/11; 10/12; 10/13; 10/14; 11/10; 11/12 (sample location S5-1); 11/13; 12/10; 12/11;

1/22; 1/23; 1/24; 1/25; 1/26

5/25 SW

11/29 NW

Nov-31

Dec-32

22-Jan

10/17; 10/18; 10/19

A/119; A/120

B/119

11-Sep

Rose Island; Five Mile Bay

6/21 N; 6/21 S

Jul-20

Oct-35

Nov-35

Nov-24

Oct-44

11/49 W

6/27 NE

12/2 N; 12/1 N

EHR/40

03-Jan

Nov-31

Jan-17

May-32

3/14; 3/15; 4/14; 4/15; 5/14; 5/15

6/35; 6/36; 7/35; 7/36

8/6; 8/7

9/12 NE; 9/13 SE

03-Nov

11/12 W; 10/12 E

Aug-25

6/8; 6/9

6/4; 7/3

?

11/12; 11/11 ?

?

?

2/15 N; 2/14

1/17; 2/18

Jun-21

Jan-20

02-Apr

Aug-22

11-Oct

11-Apr

B/28	
1/5; 2/3; 2/4	
	05-Apr
	04-May
14/13; 14/14	
	Apr-24
	Jul-27
	Feb-24
B/32	
	04-May
	07-Jun
A/140	
B/120	
B/124	
4/19; 5/19; 5/20	
14/13	
	Jul-15
	Jun-15
	Jun-17
7/20; 7/21	
	Aug-15
	Aug-14
10/10; 10/11	
12/4; 12/5	
	12-May
	Jan-26
	Apr-16
11/11; 11/12	
13/16?	
?	
	10-Mar
	10-Jun
	06-Jan
A/14	
1/1; 1/2; 1/3; 2/1; 2/2; 2/3	
B/7 NE	
	May-15
7/26; 8/24	
Arnprior	
	Mar-16
	08-Oct
13/18	
	10-Jun
	Nov-19
14/27	
13/23	
	Jul-23
	Sep-26
	Apr-21
	Apr-22
	Apr-23
	Jun-16
	Jun-24
	09-Jul
	May-30
	Sep-15

14-Mar

16/26/17/26/18/26; 16/27/17/27/18/27; 16/28/17/28/18/28; 16/29/17/29/18/29; 16/30/17/30/18/30; 16/31/17/31/18/31; 16/32/17/

?

?

3/18; 3/17; 2/16; 2/17

2/15; 2/14; 1/15; 1/14

Jul-19

3/26 ?

Jul-16

?

9/8; 8/9

18/28

8/5; 8/6; 8/7; 8/8

A/20

14/18

A/7

14/24; 14/23

15/15

15/15; 16/16; 16/17

Oct-31

1/26 ?

COUNTY	COMM_MAIN
Frontenac	galena
Renfrew	graphite
Renfrew	graphite
Renfrew County	graphite
Renfrew	graphite; stone - marble
Renfrew County	graphite
Renfrew	graphite
Renfrew County	graphite
Renfrew County	graphite
Renfrew	graphite
Renfrew	graphite*
Renfrew	graphite
Renfrew	graphite
Renfrew	graphite
Haliburton County	graphite
Haliburton	graphite
Haliburton	graphite
Haliburton	graphite
Hastings	graphite; stone - marble
Haliburton	graphite
Haliburton	graphite
Haliburton	graphite
Haliburton	graphite
Hastings	graphite
Hastings	graphite
Haliburton County	graphite
Haliburton	stone - marble
Haliburton	graphite
Haliburton	graphite
Haliburton	graphite
Hastings	graphite
Hastings	graphite
Hastings County	graphite*
Renfrew	graphite
Peterborough County	magnetite
Peterborough County	magnetite
Peterborough	magnetite; sulphides
Hastings	magnetite
Hastings	magnetite
Hastings	magnetite
Hastings	magnetite
Hastings	magnetite
Hastings County	magnetite
Hastings	stone - marble
Hastings	stone - marble (white)
Hastings	stone - marble
Hastings	stone - marble
Hastings	stone - marble (white)
Hastings	stone - marble (white)
Hastings	stone - marble
Hastings	stone - marble (fine-grained buff)
Hastings	stone - marble
Hastings	stone - marble (white-buff)
Hastings	stone - marble
Peterborough	stone - terrazzo chips; stone - marble filler (pure calcite & dolomite)

Haliburton	stone - marble (white)
Haliburton	stone - marble (blue-white)
Haliburton	stone - marble (blue-white)
Haliburton	stone - marble (white)
Haliburton	stone - marble (white)
Hastings	talc (soapstone)
Hastings	talc
Peterborough	vermiculite
Renfrew	dolomite (white) (magnesium)
Renfrew County	sphalerite
Haliburton	sphalerite
Haliburton County	sphalerite
Renfrew	sphalerite
Haliburton County	magnetite
Haliburton	magnetite
Haliburton	magnetite
Haliburton	magnetite
Haliburton	pyrite
Haliburton	pyrite
Haliburton	magnetite
Haliburton	magnetite
Renfrew	hematite; stone - marble
Renfrew County	magnetite
Renfrew	magnetite
Renfrew	magnetite
Renfrew	magnetite
Renfrew	magnetite
Renfrew	magnetite
Frontenac	magnetite
Haliburton	magnetite
Renfrew County	magnetite (titaniferous)
Hastings	wollastonite
Hastings	wollastonite
Hastings	wollastonite
Hastings County	wollastonite
Hastings	wollastonite; magneitite
Hastings	wollastonite; stone - marble
Hastings	wollastonite
Renfrew	stone - marble (grey); lime
Renfrew	stone - marble; lime
Renfrew	stone - marble (blue-grey); lime
Renfrew	stone - marble (blue-white)
Renfrew	stone - marble (blue-grey)
Renfrew County	stone - marble (blue-grey)
Renfrew	stone - marble (white-buff)
Renfrew	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble (white)
Renfrew	stone - marble; lime
Renfrew	stone - marble (white); lime
Renfrew	stone - marble
Lanark	stone - marble
Frontenac	stone - marble
LENNOX & ADDINGTON	graphite
LENNOX & ADDINGTON	stone - marble
LENNOX & ADDINGTON	tremolite

Frontenac	stone - marble
Frontenac	gold
Frontenac	Sulphides
Frontenac	sphalerite
Frontenac	stone - marble
Frontenac	gold; mineral specimens
Frontenac	stone - marble
Leeds	stone - marble
Leeds	graphite
Leeds	mica (phlogopite); apatite
Leeds	stone - marble
Leeds	stone - marble
Leeds	hematite
Lanark	calcite; stone
Lanark	marble - dolomite
Lanark	stone - marble - dolomite
Lanark	hematite
Lanark	hematite
Lanark	hematite
Lanark	stone - marble
Lanark	tremolite
Frontenac	magnetite
Frontenac	magnetite; apatite
Frontenac	mica (phlogopite)
Frontenac	magnetite
Frontenac	mica (phlogopite)
Frontenac	sphalerite (blackjack)
Frontenac	mica (phlogopite)
Frontenac	graphite
Frontenac	magnetite
Frontenac	galena
Frontenac	mica (phlogopite)
Frontenac	mica (phlogopite)
Frontenac	mica (phlogopite)
Frontenac	serpentine
Frontenac	graphite
Frontenac	galena
Frontenac	galena
Frontenac	mica (phlogopite)
Frontenac	graphite
Frontenac	barite
Frontenac	galena
Frontenac	galena
Frontenac	mica (phlogopite)
Frontenac	apatite
Frontenac	galena
Frontenac	mica (phlogopite)
Frontenac	mica (phlogopite)
Frontenac	galena
Frontenac	galena
Frontenac	galena
Frontenac	mica (phlogopite)
Frontenac	mica (phlogopite)
Frontenac	mica (phlogopite)
Frontenac	magnetite
Frontenac	mica (phlogopite)

Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Lanark	tremolite
Lanark	stone - marble
Lanark	hematite
Lanark	gold
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble filler
Lanark	pyrite
Lanark	stone - marble
Lanark	gold
Lanark	stone - marble
Lanark	chalcopyrite; tetrahedrite
Lanark	magnetite
Lanark	graphite
Lanark	stone - marble; dolomite
Lanark	hematite
Lanark	hematite
Lanark	stone - marble
Lanark	stone - marble
Lennox & Addington	stone - marble
Lennox & Addington	graphite
Hastings	stone - marble
Hastings	stone - marble (buff-white)
Carleton	stone - marble (dolomite)
Carleton	stone - marble (dolomite)
Carleton	stone - marble
Frontenac	barite
Frontenac	apatite
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	brucite
Frontenac	magnetite
Frontenac	brucite
Frontenac	brucite
Frontenac	brucite
Frontenac	brucite
Hastings	stone - marble (buff-brown); wollastonite
Hastings	hematite
Hastings	talc; stone - marble (dolomite)
Hastings	talc
Hastings	sphalerite (sulphide); boulangerite (sulfosalt)
Lennox & Addington	talc
Lennox & Addington	stone - marble (buff); mineral specimens
Lennox & Addington	stone - marble
Lennox & Addington	sulphides
Frontenac	stone - marble
Frontenac	sulphides
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble

Hastings	stone - marble
Hastings	talc
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	sphalerite
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	magnetite
Lanark	gold
Lanark	chalcopyrite
Lanark	chalcopyrite
Lanark	sulphides; chalcopyrite
Lanark	stone - marble
Lanark	tetrahedrite; sulphides
Lanark	chalcopyrite; sulphides
Lanark	tetrahedrite; barite
Lanark	stone - marble
Lanark	magnetite
Frontenac	stone - marble
Frontenac	celestite
Hastings	stone - marble & limestone (red-brown-grey); barite
Hastings	magnetite
Hastings	magnetite
Hastings	magnetite (titaniferous)
Hastings	stone - marble (pink, grey, white)
Hastings	stone - marble (black)
Hastings	stone - marble
Hastings	hematite
Hastings	hematite
Hastings	gold
Hastings	chalcopyrite; hematite
Hastings	talc
Hastings	stone - marble (buff-yellow)
Hastings	stone - marble (black)
Hastings	hematite
Hastings	hematite (goethite)
Hastings	magnetite
Hastings	stone - marble (green & white)
Hastings	hematite
Hastings	stone - marble
Hastings	stone - marble
Hastings	stone - marble (buff)
Hastings	stone - marble (pink)
Hastings	stone - marble (pink)
Hastings	pyrite
Hastings	magnetite
Hastings	stone - marble (pink)
Hastings	stone - marble (white)
Hastings	stone - marble (buff)
Hastings	stone - marble (buff)

Hastings	pyrite
Hastings	stone - marble (buff, white)
Hastings	magnetite
Hastings	stone - marble
Hastings	stone - marble
Hastings	magnetite
Hastings	stone - marble
Hastings	graphite
Hastings	stone - marble
Hastings	stone - marble
Hastings	stone - marble; wollastonite
Hastings	stone - marble (grey-green)
Hastings	stone - marble
Lanark	stone - marble
Lanark	vermiculite
Lanark	apatite; mica; feldspar
Lanark	graphite
Lanark	vermiculite
Lanark	vermiculite
Lanark	vermiculite; muscovite
Lanark	vermiculite
Lanark	graphite
Lanark	phlogopite
Lanark	stone - marble
Frontenac	pyrite
Frontenac	sphalerite
Frontenac	pyrite
Frontenac	gold
Frontenac	phlogopite
Frontenac	stone - marble
Frontenac	graphite
Frontenac	sphalerite
Frontenac	graphite
Frontenac	graphite
Frontenac	sphalerite
Frontenac	phlogopite
Frontenac	molybdenite
Frontenac	sphalerite
Frontenac	molybdenite
Frontenac	phlogopite
Frontenac	molybdenite
Frontenac	phlogopite
Frontenac	magnetite
Frontenac	magnetite
Frontenac	graphite
Frontenac	graphite
Frontenac	graphite
Frontenac	pyrite
Frontenac	phlogopite
Frontenac	talc
Frontenac	barite
Frontenac	stone - marble
Frontenac	graphite
Frontenac	stone - marble
Frontenac	apatite
Frontenac	stone - marble

Frontenac	barite
Frontenac	asbestos
Frontenac	pyrite
Frontenac	apatite
Frontenac	pyrite
Frontenac	hematite
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	tremolite filler
Frontenac	stone - marble
Frontenac	magnetite
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	hematite
Frontenac	hematite
Frontenac	stone - marble
Frontenac	stone - marble
Frontenac	stone - marble
Lanark	stone - marble - calcitic
Lanark	lime
Hastings	stone - marble - calcitic
Frontenac	talc
Frontenac	magnetite
Leeds	hematite
Leeds	stone - marble
Lanark	magnetite
Lanark	magnetite
Lanark	stone - marble
Lanark	magnetite
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lennox & Addington	stone - marble
Lennox & Addington	hematite
Lennox & Addington	pyrite; sulphur; sulphides
Lennox & Addington	sulphides
Frontenac	phlogopite
Hastings	stone - marble
Hastings	stone - marble
Hastings	graphite
Hastings	magnetite
Hastings	magnetite
Hastings	magnetite
Hastings	stone - marble
Hastings	magnetite
Hastings	magnetite
Hastings	magnetite
Frontenac	mica (phlogopite)
Renfrew	magnetite
Renfrew	magnetite
Renfrew	magnetite
Renfrew	stone - marble (blue)
Renfrew	stone - marble

Renfrew	stone - marble (white)
Renfrew	stone - marble
Lennox & Addington	hematite
Frontenac	graphite
Frontenac	graphite
Frontenac	graphite
Frontenac	graphite
Frontenac	mica
Frontenac	magnetite
Frontenac	pyrite
Renfrew	galena
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Haliburton	stone - marble
Peterborough	magnetite
	stone - marble
Peterborough	garnet
Hastings	talc
Hastings	stone - marble (pink & grey)
Hastings	galena
Hastings	galena
Hastings	stone - marble
Hastings	stone - marble
Renfrew	tremolite (asbestos)
Hastings	talc
Peterborough	talc
Hastings	talc
Hastings	stone - marble (buff, white)
Hastings	stone - marble (grey)
Hastings	pyrite
Hastings	stone - marble (pink-brown-grey-white)
Hastings	stone - marble (brown-grey)
Hastings	stone - marble (brown-grey, grey-white)
Hastings	chalcopyrite
Hastings	stone - marble (white, med grey)
Hastings	graphite
Haliburton	stone - marble (white)
Peterborough	magnetite
Renfrew	stone - marble ; lime
Parry Sound	molybdenite; stone - marble (green)
Hastings	stone - marble
Peterborough	sulphides
Hastings	stone - marble
Victoria	stone - marble (white-blue)
Renfrew	stone - marble (white & blue)
Renfrew	stone - marble
Hastings	stone - marble
Renfrew	stone - marble
Hastings	stone - marble (blue)
Renfrew	stone - marble (white)
Hastings	stone - marble

Hastings	stone - marble (red)
Peterborough	fluoborite (fluorsces)*; mineral specimens
Hastings	stone - marble
Hastings	stone - marble
Renfrew	stone - marble (grey-buff); stone - gneiss (black)
Peterborough	peristerite; stone - marble (white-bluish)
Renfrew	apatite
Renfrew	stone - marble
Peterborough	galena
Haliburton	stone - marble (blue-white)
Peterborough	stone - marble
Peterborough	lollingite (cobalt)
Renfrew	stone - marble (grey-white)
Renfrew	stone - marble
Hastings	stone - marble
Haliburton	stone - marble (blue-white); graphite
Renfrew	stone - marble (white)
Hastings	stone - marble
Parry Sound	stone - marble
Renfrew	stone - marble (pink-red) (white)
Peterborough	stone - marble
Peterborough	galena
Hastings	stone - marble
Peterborough	sulphides
Renfrew	stone - marble
Renfrew	graphite; stone - marble
Renfrew	stone - marble (grey)
Haliburton	nepheline syenite
Peterborough	galena
Parry Sound	stone - marble (pink)
Hastings	stone - marble (white/green/cream)
Renfrew	stone - marble
Renfrew	stone - marble
Lanark	stone - marble (buff-white)
Renfrew	stone - marble (white)
Frontenac	stone - marble (blue-grey)
Renfrew	stone - marble (white-buff)
Lanark	stone - marble (brown-white)
Lanark	stone - marble (white-grey)
Haliburton	stone - marble
Peterborough	marl
Renfrew	stone - marble (white-buff)
Peterborough	phlogopite
Peterborough	mineral specimens; scapolite (wernerite)
Peterborough	stone - marble
Peterborough	stone - marble (calcium carbonate)
Renfrew	stone - marble (blue-grey)
Hastings	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Renfrew	wollastonite; stone - marble (blue)
Renfrew	stone - marble

Renfrew	stone - marble
Renfrew	stone - marble (blue)
Renfrew	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble (white)
Renfrew	stone - marble
Frontenac	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble (white)
Renfrew	graphite
Haliburton	stone - marble (cream coloured)
Haliburton	stone - marble (cream coloured)
Haliburton	stone - marble
Haliburton	stone - marble (white, rusty)
Hastings	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble (pink & white)
Hastings	stone - marble
Hastings	stone - marble
Hastings	stone - marble
Hastings	stone - marble
Hastings	stone - marble (purple-salmon, blue, pink)
Hastings	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble (white)
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Renfrew	stone - marble (white-buff)
Hastings	wollastonite
Hastings	wollastonite; diopside
Hastings	wollastonite
Hastings	wollastonite
Frontenac	wollastonite; graphite
Lanark	wollastonite
Lanark	wollastonite
	wollastonite
Hastings	Mineral Specimens
	wollastonite
	wollastonite
Hastings	stone - marble (white-buff)
Frontenac	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Lanark	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble
Hastings	stone - marble

Hastings	stone - marble
Peterborough	stone - marble
	stone - marble
	stone - marble
Hastings	graphite
	stone - marble
Frontenac	stone - marble
Renfrew	stone - marble
Parry Sound	stone - marble
Renfrew	stone - marble (blue-grey)
Renfrew	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Haliburton	stone - marble
Renfrew	stone - marble
Renfrew	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Parry Sound	stone - marble
Renfrew	stone - marble (grey)
Renfrew	stone - marble (grey)
Renfrew	stone - marble (blue/white)
Renfrew	stone - marble (grey-white)
Hastings	stone - marble (white)
Haliburton	stone - marble (pink)
Haliburton	stone - marble (white)
Haliburton	stone - marble
Haliburton	stone - marble (white)
Haliburton	stone - marble
Hastings	stone - marble
Hastings	stone - marble
Renfrew	stone - marble (white-blue)
Renfrew	stone - marble (blue)
Renfrew	stone - marble (grey)
Renfrew	tremolite; dolomite
Renfrew	stone - marble (white)
Renfrew	stone - marble
Renfrew	stone - marble (white); lime
	stone - marble
	graphite

	graphite
Renfrew	stone - marble (white)
Renfrew	stone - marble
Peterborough	stone - marble
Hastings	magnetite
Hastings	magnetite*
Frontenac	mica (phlogopite)
Renfrew	stone - marble
Renfrew	stone - marble
Renfrew	magnetite
Renfrew	asbestos (chrysotile)
Peterborough	stone - marble (blue)
Peterborough	graphite
Peterborough	galena
Peterborough	mineral specimens
Peterborough	sulphides
Peterborough	magnetite
Peterborough	sulphides
Peterborough	sulphides
Renfrew	apatite (phosphate); mineral specimens
Renfrew	graphite

COMM_OTHER
barite; calcite

mica (phlogopite); mica (muscovite) bright green; tremolite; scapolite; quartz; pyrite; pyrrhotite; calcite; diopside (white)
pyrrhotite; pyrite; chalcopyrite; sphalerite; bornite
sulphides; pyrrhotite; pyrite; chalcopyrite; sphalerite; bornite

phlogopite; calcite
beryl?; columbite?; mica
tremolite

tremolite

phlogopite; pyrite

chondrodite

phlogopite; molybdenite; apatite; diopside; epidote; garnet; magnetite; pyrite; pyrrhotite; scapolite; scheelite; titanite; tremolite; c

pyroxene; chlorite; calcite; garnet; epidote; pyrite; pyrrhotite; chalcopyrite; vesuvianite; hematite; hornblende
calcite; serpentine; plagioclase; chlorite; chalcopyrite; hematite (martite) in the Paleozoic rocks to the west; pyroxene; garnet; h
pyrite; pyrrhotite; chalcopyrite; ilmenite ?; hematite?
andradite (garnet group); chalcopyrite; hornblende; pyrite; pyrrhotite; epidote; pyroxene; amphibole; calcite
garnet; pyrite; calcite; zoisite (epidote group); pyroxene; hornblende
pyrite; pyrrhotite; epidote; limonite

calcite

brucite; tremolite; serpentine
graphite; mica (phlogopite); tremolite; pyrite
dolomite; scapolite; magnetite
pyrite
actinolite; dolomite

tremolite (green feathery rosettes); tourmaline (dravite)
tremolite/actinolite; dolomite; calcite; lepidomelane/lepidolite (mica group); pyrite
tremolite
diopside; tremolite; chalcopyrite

mica (white); pyrite
mica; graphite
pyrite; graphite; mica
diopside; mica (phlogopite); pyrite; tremolite; serpentine; actinolite; dolomite; quartz; scapolite; calcite; pyroxene; apatite; chlorit
diopside; chondrodite; serpentine; phlogopite
tremolite; actinolite
tremolite; anthophyllite
mica (phlogopite)
silica; serpentine
graphite; phlogopite; tremolite; serpentine

galena; tremolite; chalcopyrite; silver; mica
quartz; feldspar; calcite; hornblende; diopside; garnet (black); scapolite
pyrrhotite
pyrrhotite
uraconite; pyroxene; garnet
limonite

marble
pyrrhotite
calcite; quartz; pyroxene; amphibole; pyrrhotite; pyrite
biotite; tremolite; pyroxene; serpentine; chlorite; pyrite; pyrrhotite; chalcopyrite; hematite; calcite; dravite; gold; epidote; garnet (
calcite; actinolite
chlorite; talc; hematite; serpentine; tremolite; actinolite; pyrite; chalcopyrite; quartz
hematite; martite; diopside; hornblende; chlorite; epidote; pyrite; pyrrhotite; chalcopyrite

diopside; quartz

calcite; diopside; quartz; pyrite

quartz; calcite; clinopyroxene; diopside; garnet; tremolite; sphalerite
calcite; tremolite; diopside-hedenbergite; sphalerite ?

calcite; dolomite crystals; graphite; muscovite ; pyrite; pyroxene; titanite; tourmaline; tremolite; vesuvianite
graphite
graphite; phlogopite
talc; graphite; mica (white); chlorite
graphite; mica (crystals)

tremolite (white)
tremolite; mica; tourmaline; apatite; talc; graphite; hematite; goethite; quartz

road metal

talc; asbestos

chalcopyrite
SPHALERITE; GALENA; PYRITE; TETRAHEDRITE; CHALCOPYRITE; HEMATITE; CINNABAR
boulangerite; pyrite; arsenopyrite; galena; chalcopyrite; garnet; mica; cerussite; dolomite; jamesonite; TENNAITE; MENEGHINI
tremolite; quartz
pyrite; chalcopyrite; scheelite; tourmaline; actinolite (in marble); bismuthinite

lime
stone - marble

lime
lime; mica; graphite
calcite; siderite; magnetite
lime; hornblende; mica; pyrite; hematite; quartz
mica; graphite
chondrodite; lime

calcite; lime; mica; graphite

hematite; garnet; calcite; diopside; ilmenite; chalcopyrite; pyrite; scapolite
pyroxene; tremolite; orthoclase; quartz; pyrrhotite; molybdenite; apatite; calcite; feldspar (white)
calcite; pyrite
pyroxene

mica (biotite)
stone - marble; pyrite; quartz
pyrite; hornblende; serpentine; diopside; quartz; calcite

pyroxene; magnetite; calcite; tourmaline

calcite; pyroxene; apatite (red); tourmaline

barite; calcite; pyrite; graphite; mica
barite; calcite

calcite; dolomite; quartz; actinolite
galena; calcite; mica; serpentine; sphalerite
barite; calcite; pyrite; sphalerite
calcite
apatite; calcite; pyroxene; pyrite

barite; sphalerite; calcite; pyroxene; titanite; pyrrhotite
apatite; feldspar; pyroxene; calcite; epidote; quartz; scapolite

barite; calcite; graphite; sphalerite; pyrrhotite; magnetite; stone - marble ?
barite; calcite
apatite; calcite; hornblende; phlogopite
calcite; pyroxene

calcite

calcite; pyrrhotite; pyroxene; quartz

talc; stone - marble; dolomite; calcite

pyrite; tremolite; serpentine; talc; epidote; chlorite; limonite; quartz; biotite; martite
chalcopyrite; silver; sphalerite; tetrahedrite; malachite; pyrite

stone - dimension; calcite; tremolite
sulphur; quartz
serpentine
tetrahedrite; chalcopyrite; silver; pyrite

gold; silver; sphalerite; pyrite; malachite
pyrite; pyrrhotite; hematite; chalcopyrite; bornite

tremolite; diopside; talc ; phlogopite
carbon; graphite; mica
stone - limestone; mica; chalcopyrite; graphite
galena; quartz; feldspar; selenite; hornblende; augite; mica
calcite; pyrite
magnetite; calcite
calcite; dolomite
calcite; dolomite; mica; graphite

pyrite; hornblende

calcite; phlogopite; tremolite; diopside; serpentine; quartz

tremolite
chlorite; serpentine
chalcopyrite (sulphide); pyrite (sulphide); arsenopyrite (sulphide); jamesonite (sulfosalt); chlorite; actinolite; veenite (sulfosalt);
tremolite; soapstone
serpentine; diopside ; tremolite; talc; chlorite (fluoresce); tourmaline (fluoresce); hornblende; magnetite; pyrite; dolomite

chalcopyrite; pyrite; bournonite; siderite; malachite; azurite; actinolite

chalcopyrite; malachite; pyrite; pyrrhotite; sphalerite; gold

dolomite

tremolite; dolomite; asbestos
lime

stone - aggregate; lime

galena; stone - marble; silver
graphite

lime

pyrite; pyrrhotite; chalcopyrite; hornblende; pyroxene; mica; jarosite
tetrahedrite; silver; chalcopyrite; malachite; azurite
pyrite; sphalerite; hematite
tetrahedrite; bornite; malachite; hematite
gold; silver; tetrahedrite; bornite; pyrite; biotite; plagioclase

bornite; malachite; chalcopyrite
graphite
stibnite; chalcopyrite; arsenopyrite; pyrite; cinnabar; chalcostibite

chlorite; epidote; calcite; dolomite; tremolite; muscovite
dolomite

calcite
calcite; pyrite
pyrrhotite; hematite; limonite; sphalerite (black); chert; calcite
epidote; pyrite; calcite; hematite; martite; smaltite, var. skutterudite; erythrite; arsenopyrite

specularite var. hematite; stilpnomelane; magnetite; goethite; pyrite; chalcopyrite
magnetite; calcite

sulphides; chalcocite; bournonite; dufrenite; pyrite; magnetite; malachite; martite
graphite; tremolite; pyrite (cubic crystals)

pyrite
specularite var. hematite; limonite; martite; magnetite; pyrite; chlorite; calcite
specularite var. hematite; calcite; pyrite; arsenopyrite; chalcopyrite; magnetite
hematite
pyrite; sphalerite
siderite; magnetite; pyrite; chalcopyrite; arsenopyrite
serpentine; tremolite; actinolite; magnetite; hematite; tourmaline; pyroaurite; hydromagnesite
pyrite; chalcopyrite

chlorite; magnetite; talc; halotrichite; copiapite; coquimbite
pyrite; chalcopyrite; calcite; quartz (green)
mica (light green aggregates); tourmaline
calcite (white); mica ; pyrite; barite
hematite; pyrite; quartz; mica

calcite

pyrrhotite

magnetite
salite; hornblende; chlorite; apatite; titanite (sphene); pyrrhotite; pyrite; serpentine; epidote; chalcopyrite; marcasite; calcite; goe
wollastonite
galena

diopside; calcite; quartz; serpentine; talc; tremolite; dolomite; mica; sulfides; garnet (green up to 3 mm); fluorite (purple, rare)
tremolite; chlorite; serpentine; pyrite; magnetite

calcite

graphite; actinolite ; tremolite - asbestos; wollastonite; calcite; scapolite; garnet; diopside; zircon; serpentine; barite; tourmaline;

phlogopite; talc; calcite; diopside
phlogopite; diopside

phlogopite
diopside; silica; pyrite; titanite
biotite; apatite

pyrite

pyrite
magnetite

sphalerite
pyrite; galena; chalcopyrite; wollastonite; calcite; diopside; graphite; chondrodite; quartz
pyrite
pyrite
graphite
sphalerite; pyrite; graphite

galena; silver; pyrite; chalcopyrite; pyrrhotite; molybdenite
pyrite

graphite
pyrite
pyrite; hornblende
pyrite
pyrite
pyrite

apatite; pyrite

calcite; fluorite; chalcopyrite

phlogopite

sericite; chrysotile; serpentine

gold

tourmaline

talc; mica

amphibole; pyroxene; calcite; epidote; apatite; titanite; chalcopyrite; pyrite; strontianite; feldspar

quartz; feldspar; granite

calcite
calcite; dolomite; graphite; pyrite; chondrodite; tourmaline; tremolite; pyroxene; scapolite; serpentine; mica; apatite; titanite; zirc
calcite; chlorite; serpentine
asbestos; tremolite; sulphides

pigment; ochre

hornblende; pyrite; scapolite; calcite; hematite; pyroxene
calcite; pyroxene; hornblende; quartz; pyrite; scapolite; apatite; titanite
limestone; dolomite; grphite; calcite
calcite; pyrite
calcite
calcite
calcite

pyrrhotite; molybdenite; pyroxene; calcite; mica
sphalerite; pyrite; galena; chalcopyrite
calcite; pyrite; pyroxene

pyrite; pyrrhotite; hornblende; pyroxene
pyrite
pyrite; pyrrhotite; chalcopyrite

pyrite; pyrrhotite; chalcopyrite
GARNET
epidote; pyrite; garnet

pyrite; chlorite
pyrite; stone - marble
stone - marble
graphite; tremolite; hematite; pyrite; dolomite
graphite; phlogopite

phlogopite; serpentine; mica (pale green)

pyrite
pyrite

pyroxene

gold

calcite; titanite
calcite; serpentine
calcite

pyrite; sphalerite; hematite; barite; fluorite (light green transparent, uncommon); malachite; azurite; calcite (white, fluoresces bri
barite; calcite vein; pyrite; chalcopyrite; gold; silver; quartz vein
muscovite (minor)

talc; serpentine; calcite; chlorite

tremolite

pyrite; quartz veins; calcite veins

calcite; quartz

galena

pyrite ?
monazite
tourmaline; graphite; mica
garnet

pyrite; pyrrhotite; chalcopyrite

graphite

phlogopite; pyrite

mica; pyrite; tremolite

norbergite; clinoamphibole; serpentine; tremolite; fluorite; mica; rutile; graphite; pyrrhotite; albite, var. peristerite

tourmaline ?; pyrite (crystals)
scapolite (wernerite); titanite (crystals); molybdenite; flourite; mineral specimens; calcite; spinel; pyrite; pyroxene; hornblende

calcite
pyrite

pyrrhotite; quartz
tremolite; pyrite

serpentine; pyroxene
phlogopite; tremolite; pyrite; graphite; serpentine; sphalerite; apatite (crystals)

pyrite

pyrrhotite; pyrite; magnetite

corundum (brown); pyroxene?
barite; calcite

graphite; phlogopite; magnetite; hematite; pyrite; tremolite; serpentine; sphalerite
muscovite; hematite; graphite
muscovite; phlogopite; serpentine; tremolite; graphite; pyrite
hematite; graphite; pyrite; tremolite
phlogopite; hematite; pyrite (traces); graphite (traces)
serpentine; scapolite var. wilsonite; galena?; sphalerite?
fossils ?
phlogopite; graphite
biotite

mica; graphite; hornblende; amphibolite; quartz

graphite

serpentine
serpentine
graphite; pyrite; tremolite; tourmaline
graphite

graphite

phlogopite; tremolite; quartz; pyrite; garnet; graphite

graphite; phlogopite; quartz; diopside

graphite; pyrite; quartz; garnet; phlogopite; tremolite

tremolite

nepheline syenite

olivine; diopside; tremolite; chondrodite; phlogopite; garnet; magnetite

phlogopite; graphite

brucite; serpentine; tremolite; quartz; hematite; sulfides
diopside

diopside; calcite; chalcopyrite
serpentine; pyroxene; apatite; mica; titanite
pyroxene; apatite; mica

aragonite; buricite; brugnatellite; calcite; cancrinite; chlorite; chondrodite; diopside; forsterite; grossular*; hydromagnesite; ludwi

quartz; mica

calcite; quartz; graphite

calcite

tremolite
tremolite
dolomite
calcite

graphite; pyrite; pyrrhotite
wilsonite; serpentine
apatite; chondrodite; zircon (pink)
pyrite; scapolite; mica; magnetite; garnet; calcite; amphibole (black)
pyrite; pyroxenite; serpentine; zircon (pink); mica; magnetite; fluorite; clinopyroxene; clinoamphibole; chondrodite; apatite
pyrite; scapolite; serpentine; mica; clinoamphibole; chlorite; apatite
barite; feldspar
apatite; chondrodite; epidote; fluoborite; fluorite; scapolite; tourmaline; zircon
pyrite; clinopyroxene; serpentine; titanite; clinoamphibole; calcite; mica
calcite; mica; clinopyroxene; quartz; serpentine
scapolite; titanite; mica; clinoamphibole

tremolite

pyrrhotite; calcite; diopside; feldspar; mica; pyroxene
hornblende gneiss

graphite; mica schist

phlogopite; talc (blue/green)

phlogopite; tremolite

graphite flakes; mica; pyrite crystals

mica; chondrodite

serpentine; graphite; pyrrhotite
stone - marble

stone - marble
diopside; phlogopite; pyrite; garnet
graphite; garnet ?

sulphides
pyrite; pyrrhotite; chalcopyrite*; sulphides; hornblende; diopside; epidote; garnet; calcite
calcite; apatite; pyrite; pyrrhotite; titanite

hematite
antigorite (picrolite)

barite; sphalerite; calcite; pyrite
tourmaline; rutile
pyrrhotite; pyrite

pyrrhotite; pyrite; arsenopyrite?
galena; sphalerite; pyrite
zircon; titanite; microcline, var. amazonite; calcite; scapolite; pyroxene; riebeckite, var. crocidolite; galena; marcasite; mica; pyri

ELEM_MAIN	ELEM_OTHER
Pb	
	Cu ; Pb; Zn
Zn	Cu
	Cb?
	Pb; Zn
	Ca
inopyroxene; chondrodite; tourmaline; serpentine; clinoamphibole; fluorite; rozenite; oligoclase var. sunston	
Fe	Zr; Y; Sc; V; Co; Ti; Mg
Fe	Ti; Cu (traces)
Fe	Ti; S; P; Cu; Mn
Fe	Cu
Fe	
Fe	
Fe	
Fe	
Fe	
	CaO 47.4%; MgO 3.55%
Ca	Cu ?

Ca	
Ca	
; titanite; sph	Zn
Mg	Sr
Zn	
Zn	
Zn	
Zn	Pb; Cu; Ag
Fe	Ti; V; Mn
Fe	
Fe	
Fe	Ti; Mn; Al; Mg
Fe	
Fe	
Fe	
Fe	
Fe	
Fe	Ti
Fe	Ti; V; P; S
Fe	Mg; V; Si; Ca; Al; Cu; Au; Ti
Fe	
Fe	
Fe	V; Cu ?
Fe	
Fe	Ti
Fe	Ti
Fe	Zn ?
	CaO 31.1%; MgO 21.24%
	CaCO3 55.62%; MgCO3 43.9%

Au	Cu
Cu	Pb; Zn
Zn	Pb; Cu; Au; Ag
Au	Cu; Zn; Bi; W
Fe	
Fe	
Fe	
Fe	
Fe	
Fe	S; Ti; Cu
Fe	
Zn	
	C
Fe	
Pb	
Pb	
Pb	
	C
Pb	Zn
Pb	Zn; Cu
Pb	
Pb	Cu; Zn; Ag
Pb	Zn; Fe
Pb	
Pb	
Fe	

Fe	P
Au	Cu; Ag; Zn; Pb; Bi; Hg
Fe	S
Au	Cu; Ag; Sb
Cu	Au; Sb; Zn; Ag
Fe	Cu; S; P; Ti
Fe	P; S; Ti
Fe	S; P
Cu	C
Pb	
	Fe
Mg	
Fe	
Mg	
Mg	
Mg	
Mg	
Fe	
Zn	Cu; Pb; Sb; As; S
Cu	
Cu	Au; Zn

Zn	Pb; Ag
Fe	Cu
Au	Cu; Ag; Sb; Bi; Hg; As; Zn
Cu	Sb; Zn; Pb; Au; Ag; Fe
Cu	Sb; Ag; Au; Zn; Pb; Fe
Cu	Sb; Ag; Au; Bi; Hg; Pb; Zn
Cu	Sb; Au; Ag; Pb; Zn
Cu	Sb; Bi; Au; Ag; Zn
Cu	Sb; Au; Hg; Ag; Sn
Fe	
Sr	
Fe	S; Mn; Sb
Fe	Zn; Mn
Fe	Co
Fe	Cu
Fe	
Au	
Cu; Fe	Au; Ag; Ni; Co
Fe	
Fe	Cu
Fe	
Fe	Cu; As
	Cu
Fe	S
Fe	

Fe	
Fe	Cr; Cu; Ni; Ti
Fe	
Fe	Mn; Ti; Cu; Zn
Pb	
	Mg
quartz; marcasite; pyrrhotite; microcline; titanite	
Zn	
Au	
Fe	
Zn	
Zn	Pb; Cu
Zn	
Zn	
Mo	
Zn	Pb; Ag; Cu; Mo
Mo	
Fe	
Fe	
Fe	S
	Cu
	C
Cu	

	Au?
Au	Fe; S
Fe	
Fe	Cu; Ti; V
Fe	
Fe	
n	
Cu	Zn; Pb
Fe	
Fe	
Fe	
Fe	Ti; S; P
Fe	S
Fe	
Fe; S	
Zn	Cu; Pb
Fe	Ti; V; S
Fe	
Fe	Cu
Fe	Cu; S; V
Fe	
Fe	Ti
Fe	
Fe	Si; Al; Mg
Fe	

Fe	
Pb	Au
Fe	
Pb	Zn; Ag; Au; Cu
Pb	Cu; Ag; Au
Fe	
Cu	Pb
Fe	
	Mo
	Cu; Ag
	Mn 2030 ppm

	U; Th; Mo
Pb	
Co	Ni; As; Ag (trace)
	CaO 30.54%; MgO 20.22%
Zn (590 ppm)	B (370 ppm); Cu; Hg (390 ppb)
Pb	
S	Fe; Ag (trace)
Pb	
Ca	
	Zn?
	Zn?; Pb?
	Au (trace); As (trace)
Ca	

Cu

Ba

Cu 68 ppm (S5-1); Zn 150 ppm (S5-1); Pb 11 ppm (S5-1)

Ca

CaO 48.28% MgO 4.35%

CaO 30.4%; MgO 20.2%
CaO 30.6%; MGO 20.0%
CaO 28.0%; MgO 19.7%
CaO 51.8%; MgO 2.4%

Ca

Ca

Cu

ite; monticellite; perovskite; rutile; sodalite var. hackmanite; spinel; tochilinite; vesuvianite; wollastonite; zirc

Cu traces; Au traces

CaO3 55.32%; $MgCO_3$ 44.54%

Fe	Co
Fe	Cu
Fe	
Pb	Zn
S	
Fe	Cr 148 ppm; Pb 148 ppm; Sr 2335 ppm; V 130 ppm; Zn 500 ppm; Ba 1930 ppm
S?	Fe?; As 450 ppm
Pb	Zn
e	Ti

HOSTR_M
marble
marble
marble
paragneiss (arkose-quartzite); marble - dolomitic-calcitic
marble - dolomitic; paragneiss; quartzite-arkose; quartz-feldspar gneiss; mica schist
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble - calcitic
marble (white)
marble (white)
marble (graphitic)
marble (white)
marble
marble
marble
marble
marble (graphitic)
marble (graphitic)
marble
marble
marble
marble
marble
marble at contact
marble
marble
skarn zone (marble - calcitic)
marble
marble
marble
marble
marble
marble - calcitic
marble - calcitic-dolomitic?
marble
marble - calcitic (black-white)
marble - dolomitic
marble - dolomitic
marble - calcitic-dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble
marble

marble - dolomitic
marble - calcitic
marble - calcitic
marble - dolomitic
marble -dolomitic
marble - dolomitic; tremolitic-talc rock (quartzite)?
marble - dolomitic; dolomite - tremolitic
marble
marble - dolomitic
marble - graphitic calcitic
marble - dolomitic
marble
marble - dolomitic
marble
marble
marble
marble
marble - dolomitic
marble - dolomitic
marble
marble
marble - dolomitic
gabbro
marble - dolomitic
marble
marble - calcitic and dolomitic
marble - dolomitic and calcitic
marble - calcitic
marble
marble
marble
marble - calcitic
marble - calcitic
marble - calcitic
marble
marble - calcitic; magnetite-bearing (garnet-rich) skarn
marble - calcitic
marble - calcitic
marble - dolomitic-calcite
marble - dolomitic
marble - calcitic
marble - dolomitic
marble
marble - calcitic
marble - dolomitic
marble - dolomitic
marble
marble
marble - dolomitic-calcitic
marble
marble
marble - calcitic
marble
marble
marble
marble

marble - dolomitic
quartz vein in marble (dolomitic)
marble
quartz vein at contact with marble - dolomitic
marble
quartz vein; marble - dolomitic
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble -dolomite
marble
marble
marble
marble
marble
marble
marble - at contact
pyroxenite vein cutting marble
marble ?
marble - at contact
marble
mica schist in marble
marble - calcitic
marble
marble
marble (calcite)
marble
vein in marble - at contact ?
marble
marble
vein in marble
marble - at contact
vein in marble
marble - calcitic
marble (vein breccia ?)
marble
marble
phlogopite-bearing calcite vein in marble
marble
marble
marble - at contact ?
marble
marble
marble
marble
white calcite vein (marble?)
marble
marble
marble
white calcite (marble)

marble
marble

marble - dolomitic

marble
marble - dolomitic
marble
marble
marble
marble - calcitic
marble
marble - dolomitic
marble
marble - dolomitic
marble
marble
marble - calcitic
marble
marble
marble
marble
marble
marble
marble
marble - dolomitic; marble - calcitic
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble - dolomitic; marble - calcitic units
marble?
marble - dolomitic
marble - dolomitic
marble - dolomitic; marble - calcitic
marble - dolomitic
marble - dolomitic
marble
marble - dolomitic
marble
marble ; vein
marble
marble
marble
marble

marble
marble
marble
marble
marble - calcitic
marble - calcitic-dolomitic
marble - dolomitic
marble
marble
marble
marble
marble
marble
marble
marble - dolomitic
marble - dolomitic silicified
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble
marble
marble
marble - dolomitic
marble (at contact)
marble; limestone (Brown Pamelia)?
marble
marble
marble
marble - calcitic
marble - calcitic
marble - calcitic
marble - dolomitic
marble - calcitic
vein
marble
marble - dolomitic schist
marble - dolomitic
marble - calcitic
marble (carbonate rock)
marble - calcitic
marble
marble - calcitic
marble
marble - calcitic
marble - dolomitic
marble - dolomitic
marble - calcitic
marble - calcitic
quartz-muscovite (chlorite) schist
marble
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic

marble
marble - dolomitic
marble
marble
marble
marble
marble - calcitic
marble
marble
marble
marble - calcitic
marble - calcitic
marble
marble - dolomitic
marble
marble; pegmatite
marble
marble
marble
marble
marble
marble; gneiss; granite
marble
marble
marble
marble - serpentine
marble
marble
marble
marble
marble
marble - calcitic
marble
marble
marble - calcitic
marble
greywacke
marble
marble inclusion
marble
marble - dolomitic
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble - dolomitic
marble
marble
marble
marble
marble

marble
marble - serpentine
quartzite
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble at contact with gneiss
marble
marble
marble
marble
marble ?
marble
marble
marble
marble - calcitic
marble - calcitic
marble - dolomitic
marble
marble
marble
marble
marble at contact
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
marble
vein in marble (at contact?)
marble - calcitic
marble - dolomitic
marble
marble - dolomitic & calcitic
marble - dolomitic, calcitic

marble - dolomitic
marble
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marble
marble - calcitic
marble
marble - calcitic
marble - calcitic
marble
marble
marble - calcitic
marble - dolomitic
marble
marble
marble - dolomitic
marble at gabbro contact
marble ?
marble - calcitic (course-grained siliceous)
in fracture between limestone and diorite; calcite vein (2-4'wide); marble
galena-calcite vein (2 foot); quartz vein (270' SW of calcite vein)
marble - calcareous
marble - calcareous
marble
marble
marble - dolomitic; talc-tremolite-carbonate schist
marble - calcitic
marble - dolomitic
marble - calcitic
marble
marble - calcitic
marble - dolomitic
marble - dolomitic
quartz stringers
marble - dolomitic-calcitic
marble & graphitic gneiss
marble - dolomitic
marble (at contact)
marble - calcitic
hornblende gneiss; marble

marble

marble - calcitic
marble - dolomitic-calcitic
marble
marble
marble - dolomitic
marble
marble - calcitic
marble

marble - dolomitic
marble - dolomitic
marble
marble
marble - calcitic
albite-quartz vein; marble - calcitic
marble - dolomitic
marble
calcite vein in marble
marble - dolomitie (calcitic)?
marble
quartz vein in marble
marble - dolomitic-calcitic
marble
marble
marble - calcitic
marble - dolomitic
marble
marble
marble - dolomitic-calcitic
marble
vein in marble
marble
marble
marble ?
marble - calcitic
marble
marble
calcite vein in marble
marble - calcitic
marble

marble
marble - dolomitic
marble - dolomitic-calcitic
marble - dolomitic
marble - dolomitic; marble - calcitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - calcitic
marble - calcitic
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marble - calcitic
marble - calcitic
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marble - calcitic
marble - calcitic, dolomitic
marble - calcitic
marble - calcitic
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marble - calcitic (dolomitic)
marble - calcitic, dolomitic

marble - dolomitic
marble - calcitic, dolomitic
marble - dolomitic
marble - dolomitic-calcitic
marble
marble - calcitic-dolomitic
marble - calcitic-dolomitic
marble - calcitic-dolomitic
marble - calcitic
marble - calcitic-dolomitic
marble - calcitic
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marble - calcitic
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marble - dolomitic-calcitic
marble - calcitic
marble
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marble - dolomitic
marble - dolomitic
marble - dolomitic
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marble -
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marble - calcitic
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marble - calcitic
marble - calcitic
marble - calcitic
marble - calcitic
marble - calcitic
marble (calc-silicate)
marble - calcitic
marble ?
marble ?
marble
skarn marble (dolomitic)
skarn marble ?
marble ?
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - dolomitic

marble - dolomitic
marble - dolomitic
marble - calcitic-dolomitized
marble - dolomitic
marble
marble - dolomitic
marble - dolomitic
marble - dolomitic
marble - calcitic
marble - dolomitic; marble - calcitic
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marble - dolomitic
marble - dolomitic
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marble - dolomitic
marble - dolomitic
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marble - dolomite
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marble - calcitic
marble - dolomitic
marble
marble
marble - calcitic-dolomitic
marble - calcitic
marble - calcitic
marble
marble - dolomitic
marble - dolomitic
marble
marble - dolomitic
marble; hornblende gneiss inclusion
marble

marble
marble - calcitic
marble
marble
skarn; hornblende schist
skarn; hornblende schist
pyroxenite and marble contact
marble
marble
marble
marble
marble
marble
calcite-barite vein in marble
marble and granite contact
marble ; gneiss
marble
marble - dolomitic
marble
syenite dike in marble?
marble at contact

HOSTR_O

paragneiss; quartzite
trondhjemite intrusions; diorite intrusions

schists; trondhjemite; diorite

paragneiss

float?

syenite

paragneiss
amphibolite; granite pegmatite
gneiss; pegmatite
pyroxenite; amphibolite; granite gneiss; pegmatite
paragneiss (rusty)
gabbro-diorite
gabbro-diorite
greenstone, chloritic schist, breccia, metamorphic pyroxenite, diorite, trap, syenite
amphibolite; quartzite; tonalite; gabbro
mica schist; amphibolite
amphibolite; pegmatite
amphibolite
Bessemer Pluton
tonalite

amphibolite
metagabbro

gneiss inclusions
amphibolite; biotite schist
paragneiss
amphibolite

leucogranite

marble - graphitic dolomitic; marble - feldspathic

marble - calcitic; silicated dolomitic marble
gneissic granite; gneiss; pegmatite; amphibolite
amphibolite; gabbro
amphibolite
gneiss

marble - calcitic; hornblende gneiss
amphibolite schist; gabbro
hornblende schist; amphibolite; hornblende gneiss; metamorphic pyroxenite
gabbro
amphibolite schist; syenite
diorite; amphibolite; gabbro
syenite
gneiss
hornblende gneiss
granite intrusion; felsite

syenitic to granitic intrusions; syenite

gabbro; felsite
granite gneiss

mica schist

limestone; serpentine masses

greywacke

rusty paragneiss; quartzite; white granitic pegmatite instrusions
pyroxenite

sandstone
gneiss
gneiss; granite; quartz
limestone

sandstone ?

limestone

gneiss
gneiss
quartzite; paragneisses; intrusions of granite and pegmatite

granite intrusion
granite

paragneiss; granitic gneiss; quartzite; amphibolite; greywacke
quartzite; greywacke

granite; pyroxenite?; gneiss?
greywacke
greywacke

garnetiferous paragneiss
calcite-barite-galena vein; granite
calcite vein; granite intrusions
greywackes

granite; galena-bearing calcite vein
greywackes; granite gneiss; pegmatite
gabbro intrusion; granite intrusion
granitic gneiss

calcite vein; granite intrusions
metamorphic pyroxenite

greywackes; quartzites; granite intrusions
gneiss
pyroxenite; quartz

amphibolite; paragneiss

SCHME

gabbro

SCHME

mafic volcanics
diorite
SCHME; IFE

paragneiss; pelitic schists; granitic gneiss

granite; syenite

greywacke; syenite

paragneiss; pelitic schists; granitic gneiss; amphibolite dikes intrude marble
SCHME

schist

talc schist

greywacke; quartzite

diorite; granite

granitic gneiss; hornblende schist; granite
marble - calcitic
granite
marble - calcitic
marble - calcitic
marble - calcitic
marble - calcitic
marble - calcitic
amphibolite; quartz-biotite gneiss; siliceous marble

granite

gneiss

granite
granite
rhyolite; trap; slate
rhyolite

marble - dolomitic
granite; quartz vein
limestone - Paleozoic; steatite schist; granite intrusive

rhyolite; granite; quartz veins; calcite veins

rhyolite - inclusion
rhyolite; granite
rhyolite intrusion

marble
rhyolite

F3

quartz vein
metagabbro; diorite; leucogabbro

skarn
meta-quartzite; syenite; diorite; metamorphic pyroxenite

diabase dikes

syenitic-granitic intrusions; skarn

SCH

mica-apatite veins; pyroxenite; biotite-garnet gneiss

metamorphic pyroxenite; paragneiss; quartzite
paragneiss; quartzite; migmatite

pegmatite

granite intrusion

vein quartz

pegmatite; anorthositic gabbro; gabbro; felsic rock

marble

granite; syenite

granite; pegmatite

greywacke; syenite
greywacke; biotite granite

pegmatite; granite

marble

gabbro diorite; granite dike

granitic gneiss; dioritic gneiss

FEI

SCHME

SCHME IFEME IMAME
paragneiss

granitic gneiss
gneiss; pyroxenite

amphibolite; metamorphic pyroxenite

S ME

diorite
skarn
syenite

granodiorite
trondhjemite

calcareous dolomitic marble
calcareous mudstone; quartzite
calcareous sandstones and mudstones

paragneiss

marble - calcitic; amphibolite bands; granitic gneiss

quartz vein in greywacke

amphibolite

chlorite schist (greenstone), gabbro

metagreywacke (feldspathic interbedded); diorite
marble; metagabbro
amphibolite (feather)
amphibolite (feather); mica schist; breccia

marble breccia; quartzite; greywacke; quartz veinlets
marble breccia; dolomitic fragments

quartz veins
marble
quartz vein
pegmatite
gneiss
granite intrusive

red garnet rock bands, hornblende, orange & white carbonate stringers; hornblende-garnet-carbonate-quartz-feldspar rock

quartz
paragneiss; albite granite; quartz monzonite; granodiorite

syenite intrusions; paragneiss

paragneiss; biotite syenite

pegmatite - red granite

hornblende gneiss
gneissic granite
pegmatite

granite pegmatite dike
graphitic quartzite

amphibolite
quartz-feldspar gneiss; quartz-feldspar pegmatite; amphibolite

schist

paragneiss; amphibolite schist; quartz monzonite

paragneiss
marble - calcitic; amphibolite; gneiss; migmatite; metagabbro
marble - calcitic
sedimentary gneiss; granitoid gneiss; garnet-sillimanite

amphibolite - calcareous; hornblende schist; gneiss

gneiss

quartzite; amphibolite; pegmatite intrusions
pegmatite
quartz-feldspar gneiss; amphibolite; graphic granite pegmatite

quartz-felspar gneiss; granitic pegmatite; quartzite; amphibolite; quartz-calcite vein

gneiss; granite pegmatite

paragneiss; amphibolite; nepheline gneiss inclusions
pegmatite inclusions; calc-silicate inclusions
biotite hornblende gneiss
interbeds of hornblende or garnet-hornblende gneiss
amphibolite
hornblende gneiss

biotite gneiss; pegmatite; garnet-hornblende gneiss
hornblende gneiss

paragneiss; granitic pegmatite

gabbro-diorite; syenite; amphibolite syenite; granite; skarn metasediments
gabbro intrusion; skarn; stromatolite ?
gabbro
quartzite; paragneiss; pegmatite (white)
pyroxenite; gneiss
pyroxenite
quartzite; biotite-quartz-feldspar gneiss; migmatite; pegmatite (white)
nepheline gneiss

paragneiss; schist

paragneiss; pegmatite

hornblende gneiss inclusions

paragneiss

amphibolite

paragneiss; amphibolite

hornblende gneiss

hornblende schist inclusions
garnet-quartz-feldspar gneiss

granite gneiss; amphibolite
granite gneiss

syenite gneiss
quartz-hornblende-feldspar gneiss

gneiss

quartzarenite; metaconglomerate

CLASSIF_1	CLASSIF_2
HR-chemical metasedimentary	
HR-metasedimentary	D-pyritic gneiss-hosted, conformable, disseminated
HR-metasedimentary	D-carbonate hosted, vein
D-marble hosted, massive	
D-marble hosted, disseminated	
D-marble hosted, disseminated	
D-contact metasomatic	D-skarn
D-contact metasomatic	D-in skarn metamorphic pyroxenite
D-magnetite skarn with sulphides	D-contact metasomatic
D-stratabound, carbonate-skarn hosted, at intrusive contact	D-contact metasomatic
HR-metasedimentary, calcareous	
HR-metasedimentary, calcareous,	
HR-mafic metavolcanics; intermediate and felsic metavolcanics	

D-sedimentary, calcareous sediment, marble	
D-sedimentary; calcareous sediment; magnesian marble	
D-sedimentary; calcareous sediment; magnesian marble	
D-sedimentary, calcareous sediment; dolomitic marble	
HR-carbonate	
D-stratabound, carbonate hosted, zinc	
contact metasomatic	
D-contact metasomatic	
D-contact metasomatic and bog iron	
D-contact metasomatic	
D-intrusion hosted (gabbro)	
D-stratabound, carbonate skarn hosted, at intrusive	
D-contact metasomatic	
D-stratabound, carbonate skarn hosted, at intrusive contact	
D-stratabound, carbonate skarn hosted, at intrusive contact	
contact metasomatic	
contact metasomatic ?	
HR-metasedimentary	
HR-metasedimentary, mafic intrusive	D-stratabound, carbonate skarn-hosted
HR-metasedimentary	
HR-carbonate	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	

HR-chemical metasedimentary	
HR-chemical metasedimentary and metavolcanic	
HR-chemical metasedimentary	
HR-chemical metasedimentary and metavolcanics	
HR-chemical metasedimentary	
HR-mafic metavolcanics and chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary intrusive felsic	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical sedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical sedimentary	
HR-chemical sedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary and volcanics	D-contact metasomatic
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary and volcanics	
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HR-chemical metasedimentary, volcanics	
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HR-chemical metasedimentary and volcanics	

HR-chemical metasedimentary	
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HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary at contact	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
D-stratabound, carbonate-hosted, Cu-Sb-Au-Ag	
D-contact metasomatic	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	HR-intrusive felsic
HR-chemical metasedimentary	HR-felsic intrusive
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
D-contact metasomatic	HR-chemical metasedimentary
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary; mafic metavolcanics	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary, metavolcanic	
HR-chemical metasedimentary	
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HR-chemical metasedimentary	
HR-chemical metasedimentary	
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HR-chemical metasedimentary	
D-stratiform, carbonate hosted	HR-chemical metasedimentary
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
D-contact metasomatic ?	D-hydrothermal ?
D-stratabound, carbonate hosted, Cu-Sb-Au-Ag	HR-chemical metasedimentary and mafic volcanics
D-stratabound, carbonate hosted, Cu-Sb-Au-Ag	HR-chemical metasedimentary and mafic volcanics
D-stratabound, carbonate hosted, Cu-Sb-Au-Ag	HR-chemical metasedimentary and mafic volcanics
D-stratabound, carbonate hosted, Cu-Sb-Au-Ag	HR-chemical metasedimentary and mafic volcanics
HR-chemical metasedimentary	
D-stratabound, carbonate hosted, Cu-Sb-Au-Ag	HR-chemical metasedimentary and mafic volcanics
D-stratabound, carbonate hosted, Cu-Sb-Au-Ag	HR-chemical metasedimentary and volcanics
D-strataform, carbonate hosted, Cu-Sb-Ag-Hg	HR-chemical metasedimentary and volcanics
HR-chemical metasedimentary	
D-contact metasomatic	HR-chemical metasedimentary and volcanics
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	D-contact metasomatic
HR-chemical metasedimentary	D- contact metasomatic
HR-chemical metasedimentary and metavolcanic	
HR-sedimentary, calcareous	
HR-chemical metasedimentary	
HR-metasedimentary	D-sedimentary, calcareous
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary	
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-sedimentary calcareous	D-sediment, calcitic marble
HR-chemical metasedimentary and metavolcanic	
HR-chemical metasedimentary and metavolcanic	
HR-chemical metasedimentary and metavolcanic	
HR-chemical metasedimentary	
HR-chemical metasedimentary and volcanics	
HR-chemical metasedimentary	
HR-metasedimentary	HR-sedimentary, calcareous
HR-sedimentary, calcareous	
HR-sedimentary calcareous	
HR-sedimentary calcareous	
HR-chemical metasedimentary and metavolcanic	D-stratabound, sedimentary hosted, pyrite
HR-chemical metasedimentary and metavolcanic	
HR-sedimentary calcareous	
HR-sedimentary calcareous	
HR-sedimentary, calcareous	D-sediment, dolomitic marble
HR-chemical metasedimentary	

HR-metasedimentary	
D-contact metasomatic	
HR-chemical metasedimentary	
HR-chemical sedimentary	
D-contact metasomatic	
HR-chemical metasedimentary	
HR-metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-metasedimentary	
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HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-sedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-metasedimentar, metavolcanic	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical sedimentary	
D-stratabound, carbonate hosted, zinc	
HR-chemical metasedimentary	HR-intrusive
HR-chemical metasedimentary	HR-intrusive
HR-chemical metasedimentary	
D-contact metasomatic	HR-chemical metasedimentary
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical sedimentary	HR-felsic intrusive
HR-chemical sedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	

HR-chemical sedimentary	
HR-chemical sedimentary	
HR-chemical sedimentary	HR-clastic sedimentary
HR-mafic intrusive	HR-felsic intrusive
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-metasedimentary	HR-metavolcanics
HR-chemical metasedimentary	
D-contact metasomatic	HR-chemical metasedimentary
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical sedimentary	
HR-chemical sedimentary	
HR-felsic instrusive	
HR-felsic intrusive	
HR-felsic intrusive	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	HR-felsic intrusive metamorphic
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
D-contact metasomatic	HR-sedimentary
D-contact metasomatic	HR-intrusive metamorphic
HR-chemical sedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-metasedimentary	
HR-metasedimentary	
D-contact metasomatic	HR-metasedimentary
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	HR-intrusive mafic metamorphic
HR-chemical metasedimentary	HR-mafic metavolcanic
HR-chemical metasedimentary	HR-intrusive metamorphic
HR-chemical metasedimentary	
HR-chemical metasedimentary	HR-intrusive intermediate metamorphic
HR-intrusive felsic metamorphic	
HR-chemical metasedimentary	HR-intrusive intermediate metamorphic
D-strataform, carbonate-hosted	
D-strataform, carbonate-hosted	
HR-metasedimentary; metavolcanic	

HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
HR-chemical metasedimentary	
D-contact metasomatic	
D-magnetite bearing skarn	HR-mafic volcanic
HR-metasedimentary	
HR-metasedimentary	
D-unconformable, carbonate vein-hosted lead	
D-unconformable carbonate vein-hosted lead	
HR-metasedimentary	
HR-metasedimentary	
HR-carbonate	
HR-carbonate	
HR-clastic sedimentry	
D-contact metasomatic	

D-sedimentary; calcareous sediment
D-Late Precambrian vein

HR-metasedimentary

HR-metasedimentary

D-composite vein deposit in marble of the Vansickle Formation

HR-metasedimentary, metavolcanic
HR-

HR-metasedimentary	
D-marble hosted, disseminated	
HR-metasedimentary, mafic & felsic instrusives	D-sedimentary, calcareous sediment, magnesian marble
HR-metasedimentary, mafic-felsic instrusives	
HR-metasedimentary	

D-contact metasomatic	HR-volcanic
D-contact metasomatic	HR-volcanic
D-Late Precambrian vein	

ZONE	EASTING
18	378150
18	350400
18	349850
18	349950
18	349150
18	351750
18	349100
18	348700
18	340500
18	334307
18	325300 (31F/6); 325150 (31F/3)
18	312400
18	363104
18	345690
17	692410
17	699330
17	709060
17	694200
18	281800
17	719650
17	719945
17	719750
17	720400
18	278550
18	274587
17	719304
17	718500
17	720144
17	719480
17	719047
18	288400
18	280014
18	274251
18	313200
18	278350
18	280350
18	278150
18	292254
18	294251
18	293536
18	293162
18	293647
18	294505
18	297250
18	307050
18	292700
18	300765
18	274400
18	274950
18	277360
18	277310
18	278320
18	278900
18	281700
18	270600

17	697614 (MDIR); 697700
17	704439
17	707052
17	695600
17	696561
18	272172
18	277551
17	713502
18	363250
18	317430
17	700050
17	697050
18	366120
17	681194
17	694300
17	692430
17	693600
17	692750
17	692850
17	694600
17	694750
18	381550
18	365155
18	366600
18	367280
18	363410
18	364880
18	361990
18	354550
17	685030
18	364184
18	293600
18	294250
18	293150
18	291352
18	293000
18	292000
18	291400
18	369100
18	370111
18	370800
18	363700
18	366550
18	368587
18	362950
18	363850
18	357700
18	364110
18	363250
18	363878
18	363410
18	382900
18	351720
18	316050
18	315150
18	307542

18		334400
18		333601
18		332101
18		337428
18		330314
18		331123
18		333900
18		411281
18		408324
18		408674
18		411000
18		411342
18		411339
18		391608
18		388443
18	386494 386850 - 4/3	
18		386800
18		391150
18		390464
18		390960
18		390800
18		370614
18		371992
18		371347
18		371500
18		372400
18		372437
18		372400
18		374950
18		373691
18		373500
18		374100
18		371341
18		372547
18		375600
18		376500
18		374700
18		374950
18		374200
18		377000
18		376408
18		375705
18		376150
18		378195
18		378200
18		376837
18		380193
18		379114
18		377000
18		377750
18		378373
18		381551
18		379400
18		379558
18		380500
18		383003

18	351485
18	350400
18	350380
18 348599 (348200 OFR 5712)	
18	346137
18	387624
18	386874
18	387396
18	373400
18	381368
18	373151
18	382162
18	381152
18	380602
18	374111
18	382263
18	375483
18	374806
18	384216
18	381778
18	381412
18	382363
18	383050
18	381100
18	321850
18	316273
18	310266
18 316848 (317800 OFR 5712)	
18	397443
18	404988
18	404497
18	369864
18	368130
18	366680
18	366693
18	355950
18	354500
18	354750
18	353577
18	353187
18	354014
18	314379
18	302300
18 305000 - Conley; 304913 - Henderson	
18	305396
18	303600
18	303045
18	331722
18	331722
18	332409
18	338278
18	338461
18	341419
18	342550
18	341701
18	347690

18		276000
18		285925
18		391600
18		386892
18		391885
18		383181
18	384224 or 384245	
18		395021
18		388575
18		389958
18		388075
18		392469
18		396226
18		368527
18	371726 or 371880	
18		370758
18	370728 or 370780	
18		370497
18		371122
18		370652
18		370301
18	364177 or 364205	
18		365877
18		366690
18		372900
18		373440
18		295825
18		293861
18		295880
18		297806
18		302031
18		302642
18		302456
18		300875
18		299437
18		299723
18		299240
18		297935
18		297950
18		302589
18		303390
18		302802
18		302757
18		302282
18		301972
18		301724
18		299523
18		300078
18		300182
18		300206
18		298987
18		302740
18		306632
18		306900
18		304019
18		303358

18		306090
18		298100
18		281096
18		281493
18		283850
18		288612
18	292160 - Tweedmin; 292100 - OFR 5585	
18		291150
18		285860
18		292834
18		293688
18		293117
18		292800
18		419750
18		402400
18	341100 (OFR 5715)	
18		395550
18		395282
18		395789
18		394895
18		395100
18		408269
18		404346
18		373800
18		350750
18		353746
18		354650
18		353000
18		352250
18		352378
18		356958
18	355776; 356200 (OFR 5715)	
18		355950
18		355500
18		355350
18		356650
18		354137
18	359503 or 359575	
18		360123
18	362800 ?	
18		360604
18	364200 ?	
18		363250
18		363500
18		359640
18		355500
18		368213
18		366300
18		266150
18		366800
18		363890
18		366191
18		369600
18		368931
18		370100
18		368720

18	372900
18	371700
18	369450
18	372700
18	370215
18	375100
18	353842
18	354058
18	354132
18	354236
18	355632
18	362710
18	360928
18	366971
18	363094
18	359453
18	367757
18	366700
18	365300
18	365715
18	355680
18	402551
18	403250
18	295726
18	350596
18	358575
18	402688
18	394801
18	380204
18	385800
18	379775
18	382403
18	380400
18	376987
18	377800
18	342419
18	347248
18	350122
18	350555
18	390995
18	295347
18	295150
18	293012
18	292472
18	289480
18	290041
18	291600
18	290789
18	296050
18	294972
18	373500
18	365700
18	365060
18	364170
18	362800
18	359550

18	326800
18	336460
18	329100
18	355650
18	356150
18	355500
18	355800
18	375920
18	358890
18	351990
18	389554

17	680555
18	276700
18	272300
18	278050
18	301800
18	276590
18	297995
18	298611
18	299150
18	301000
18	357785
18	298630
18	277700
18	290915
18	299820
18	299500
18	306746
18	303600
18	298150
18	298100
18	296850
18	298420
18	265600
17	698950
17	722314
18	332009

18	287628
17	708700
18	278618
17	683898
18	361121
18	333100
18	300350
18	333050
18	315600
18	354450
18	278261

18	276250
17	698480
18	283079
18	264134
18	366000
17	732833
18	361280
18	312927
17	696453
17	692210
17	706450
17	694112
18	374800
18	313199
18	280936
17	713726
18	306035
18	278200
18	341800
17	734700
17	690450
18	264869
17	690100
18	313934
18	364700
18	394942
17	728900
18	276439
18	292720
18	337399
18	325154
18	382890
18	358900
18	340650
18	325700
18	393910 Sample LAN-01 Lot 8, Con 7; 394460 Sample LAN-01a Lot 10, Con 7
18	391150
17	674550
17	734976
18	334950
17	723450
17	725900
17	734100
17	733500
18	394623
18	283100
18	362800
18	352750
18	350600
17	674550
17	674250
17	673700
18	376450
18	375550

18		364400
18		366080
18		360050
18		361300
18		364100
18		350500
18		353990
18		343120
18		341853
18		339250
18		342300
18		355050
17		734300
17		734950
17		734900
17		719400
18		290431

18		280112
18		277636
18		276743
18		280218
18		275000
18		277400

17		705240
17		696550
17		703200
18		335600
18		291750
18		292960
18		284310
18		288800
18		395760
18	401300-402500	
18		401700
18		416600
18		284940
18	402600 very approx	

18		297600
18	350550; 351800	
18		400760
18		396650
18		403400
18		367200
18		364700
18		287950

18	264358
18	274350
18	395370
18	395140
18	278109
18	386000
18	360200
18	361450

18	373250
18	375850

17	675250
17	674380
17	676550
17	676600
17	675900
17	674800
17	676410
17	676390
17	676900
17	678700
17	678350
17	674740
17	677450
18	321736
18	316137

18	392050
18	381100
18	378400
18	394000
18	297686
17	682720
17	682300
17	710650
17	715349
17	716840
18	274150
18	276130
18	306750
18	362050
18	362650
18	362950
18	362130
18	365600
18	362160

18	325800
18	276740
18	277850
18	376837
18	330794
18	336498
18	369000
18	362300
17	696950
17	691850
17	689108
17	690850
17	696870
17	693004
17	706557
18	330720
18	332250

NORTHING	NTS_AREA
4944400	31C/10NE
5009500	31F/2
5008300	31F/2
5012300	31F/2
5012250	31F/2
5016400	31F/7
5016850	31F/7
5016600	31F/7
5021800	31F/6
5025701	31F/6
5012920 (31F/6); 5012700 (31F/3)	31F/6; 31F/3
5021530	31F/6
5059778	31F/10
5070425	
4965290	31D/15
4969160	31D/16
4974595	31D/16
4959450	31D/15
4991250	31F/4
4990800	31E/1
4989858	31E/1
4992200	31E/1
4993300	31E/1
4981100	31C/13
4979449	31F/4
4987833	31E/1SE
4985300	31D/16
4988641	31E/1SE
4989750	31E/1
4990716	31E/1
5011000	31F/4
5003672	31F/4NW
5010704	31F/4
5036950	31F/6
4934450	31C/12
4927270	31/C5
4922400	31C/5
4991449	31F/4SE
4994721	31F/4SE
4994521	31F/4SE
4990308	31F/4SE
4993072	31F/4SE
4995269	31F/4SE
4927950	31C/5
4931700	31C/11
4935550	31C/12SE
4978351	31C/13
4991250	31F/4
4991550	31F/4
4989660	31F/4
4989500	31F/4
4990920	31F/4
4991200	31F/4
4983950	31C/13
4939001	31C/12

4972447 (MDIR); 4972200	31D/16
4974107	31D/16
4973968	31D/16
5000300	31E/2
4991207	31E/2
4987976	31F/4
4974484	31C/13NW
4956398	31D/9
5050700	31F/10
5021450	31F/6
4968750	31D/16
4969360	
5030020	31C/7
4966070	31D/15
4970650	
4965650	31D/15
4965800	31D/15
4967100	
4966800	
4970500	31D/15
4970600	
5018455	31F/7
5026450	31F/7
5021940	31F/7
5017870	31F/7
5020635	31F/7
5016500	31F/7
5018940	31F/7
4939800	
4978750	31D/15
5012961	31F7
4938950	31C/12
4939100	31C/12
4936150	31C/12
4934285	31C/12
4936650	31C/12
4930500	31C/5, 31C/12
4934250	31C/12
5039175	31F/7
5036599	31F/7
5034000	31F/7
5040150	31F/10
5037300	31F/7
5036252	31F/7
5046550	31F/10
5047800	31F/10
5054590	31F/10
5051550	31F/10
5059460	31F/10
5051669	31F/10
5051010	31F/10
4999700	31F/1
4958400	31C/15
4998330	31F/03
4950370	31F/03
5001755	31F/03NW

	4965400	31C/14SE
	4966959	31C/14SE
	4965853	31C/14SE
	4970696	31C/14
	4968901	31C/14SE
	4969592	31C/14SE
	4966500	31C/14SE
	4956905	31C/16SE
	4954946	31C/09NE
	4951720	31C/09NE
	4940000	31C/09SE
	4938239	31C/09SE
	4938017	31C/09SE
	4963873	31C/16SW
	4963817	31C/16SW
4965406 4965450 - 4/3		31C/16SW
	4965050	31C/16
	4979250	31C/16
	4980227	31C/16NW
	4981551	31C/16NW
	4982700	31C/16W
	4934479	31C/10SE
	4935896	31C/10SE
	4935355	31C/10SE
	4935400	31C/10NE
	4933100	31C/10
	4934221	31C/10SE
	4941500	31C/10
	4935050	31C/10NE
	4937420	31C/10SE
	4939868	31C/10SE
	4941500	31C/10SE
	4951022	31C/10NE
	4951889	31C/10NE
	4933700	31C/10SE
	4933200	31C/10SE
	4940500	31C/10
	4940850	31C/10SE
	4948350	31C/10NE
	4933850	31C/10SE
	4942479	31C/10NE
	4943159	31C/10NE
	4945100	31C/10SE
	4936223	31C/10SE
	4937050	31C/10SE
	4944138	31C/10NE
	4936852	31C/10SE
	4938649	31C/10SE
	4944000	31C/10NE
	4944100	31C/10NE
	4954664	31C/10NE
	4937271	31C/09SW
	4944350	31C/10NE
	4945419	31C/10NE
	4945400	31C/10NE
	4938577	31C/09SW

	4983459	31C/15NW
	4981800	31C/15NW
	4982690	31C/15
4981526 (4981350 OFR 5712)		31C/15NW
	4977584	31C/15NW
	4984720	31F/01SW
	4986846	31F/01SW
	4980724	31C/16NW
	5006768	31F02NE
	5000059	31F/02NE
	5009997	31F/02NE
	5000488	31F/01NW
	5001173	31F/02NE
	5001184	31F/02NE
	5006976	31F02NE
	5001709	31F/01NW
	5008840	31F02NE
	5010298	31F/02NE
	5005339	31F01NW
	5013608	31F/02SE
	5015060	31F/02SE
	5015598	31F/07SE
	5014450	31F/08SW
	5003600	31F/02NE
	4998000	31F/3
	4998939	31C/03SW
	4936521	31C/11SW
4935999 (4936050 OFR 5712)		31C/11SW
	5031115	31F/08NW
	5033329	31F/08NW
	5037004	31F/08NE
	4932717	31C/10SE
	4933419	31C/10SE
	4933110	31C/10SE
	4933114	31C/10SE
	4933800	31C/10SW
	4942300	31C/10
	4933600	31C/10
	4933064	31C/10SW
	4933405	31C/10SW
	4934832	31C/10SW
	4933067	31C/11SW
	4929400	31C/6
4930563 - Conley; 4930343 - Henderson		31C/11SW
	4930551	31C/11SW
	4929700	31C/5NE
	4938850	31C/11NE
	4945599	31C/11NE
	4945599	31C/11NE
	4959808	31C/14SE
	4947543	31C/11NE
	4948539	31C/11NE
	4949467	31C/11NE
	4949750	31C/10NW
	4951237	31C/10NW
	4953094	31C/10NW

	4945000	31C/12
	4955294	31C/1 SE
	4984000	31F/01SW
	4987845	31F/01SW
	4984981	31F/01SW
	4996023	31F/01SW
4997117 or 4997215		31F/01SW
	4988706	31F/01SW
	4998484	31F/01NW
	4996571	31F/01SW
	5001382	31F/01NW
	5000861	31F/01NW
	4999799	31F/01NW
	5002867	31F/02NE
	4997840	31F/02SE
	4996598	31F/02SE
4991263 oe 4991360		31F/02SE
	4991490	31F/02SE
	4991255	31F/02SE
	4991377	31F/02SE
	4993495	31F/02SE
4997958 or 4997975		31F/02SE
	4989030	31F/02SE
	4986458	31F/02SE
	4925400	31C/07NE
	4928647	31C/10SE
	4934180	31C12SE
	4938133	31C12SE
	4939182	31C12SE
	4929560	31C05NE
	4929762	31C06NW
	4931523	31C11SW
	4932250	31C11SW
	4937116	31C12SW
	4938514	31C12SE
	4940063	31C/12SE
	4939856	31C/12SE
	4941342	31C12SE
	4942200	31C12SE
	4932414	31C11SW
	4932612	31C11SW
	4934187	31C11SW
	4935299	31C11SW
	4935426	31C11SW
	4935658	31C11SW
	4935989	31C11
	4941292	31C12SE
	4941275	31C12SE
	4942049	31C12SE
	4942827	31C12SE
	4944533	31C12NE
	4934743	31C11SW
	4931959	31C11SW
	4932285	31C/11SW
	4937596	31C11SW
	4939395	31C11SW

	4936965	31C 11
	4942020	31C12SE
	4934438	31C/12SW
	4934425	31C/12SW
	4932320	31C/12
	4928295	31C/05NE
4930184 - Tweedmin; 4929950 - OFR 5585		31C/5SE
	4934340	31C/12
	4930000	31C/05
	4935831	31C/12SE
	4937694	31C/12SE
	4937268	31C/12SE
	4934950	31C/12SE
	4974750	31C/16NW
	4957600	31C/16SE
4958300 (OFR 5715)		31C/16SE
	4954760	31C/09NW
	4961257	31C/16NW
	4963248	31C/16SW
	4961818	31C/16SW
	4961500	31C/16SE
	4967725	31C/16SE
	4969671	31C/16NE
	4969000	31C/15NE
	4955650	31C/10
	4951065	31C/10NW
	4952000	31C/10
	4955000	31C/10
	4955359	31C/10
	4957098	31C/15NW
	4948950	31C/10
4949685; 4949500 (OFR 5715)		31C/10NW
	4951675	31C/10
	4952250	31C/10
	4952820	31C/10NW
	4952150	31C/10
	4957834	31C/15SW
4949714 or 4949775		31C/10NW
	4952701	31C10/NW
4956800 ?		31C/15
	4963915	31C/15SW
4957450 ?		31C/15
	4961000	31C/15
	4963150	31C/15
	4948550	31C/10NW
	4952250	31C/15SW
	4953086	31C/10NE
	4958900	31C/15
	4957950	31C/15
	4959300	31C/15
	4965957	31C/15SE
	4962797	31C/15SE
	4958300	31C/15
	4964962	31C/15SE
	4959700	31C/15
	4965690	31C/15

4954300	31C/10
4959800	31C/15
4966900	31C15
4960300	31C/15
4969826	31C/15SE
4961100	31C15
4979625	31C/15NW
4982177	31C/15NW
4981953	31C/15NW
4983062	31C/15NW
4985476	31F/02SW
4973650	31C/15NE
4986136	31F/02SW
4973449	31C/15NE
4987867	31C/02SE
4987168	31F/02SW
4925500	31C/07NE
4925400	31C/07NE
4926300	31C/07
4928134	31C/07NE
4931128	31C/10SW
4996920	31F/01SE
5000400	31F/01NE
4929180	31C/05NE
4985924	31F/02SW
4993745	31F/02SW
4932920	31C/09SE
4936598	31C/09SW
4954519	31C/10NE
4960400	31C/16
4957082	31C/15SE
4962258	31C/16SW
4968900	31C/15
4968582	31C/15SE
4970100	31C/15
4925323	31C/07NW
4930987	31C/10SW
4934920	31C10SW
4936467	31C/10SW
4932216	31C09SW
4952431	31C/12NE
4956500	31C/12NE
4956286	31C/12NE
4959195	31C/14SE
4960650	31C/13SE
4964834	31C/13SE
4965959	31C/13SE
4965921	31C/13SE
4969200	31C/13SE
4968010	31C/13SE
4953100	31C/10NE
5018750	13F/7
5018070	31F/7
5017120	31F/7
5026500	31F/7
5018500	31F/7

5021800	31F/6
5015618	31F/06SE
4941300	
4953580	31C/10
4953000	31C/10
4951900	31C/10
4951380	31C/10
4956050	31C/10
4983900	31c/15
4984050	31C/15
5031915	31F/8NW
	31E/13
	31E/12
4978557	31D/15
4922250	31C/5
4934100	31C/12
4933200	31C/12
4979300	31C/13
4992202	31F/4
4973585	
4973009	31C/13
4974450	31C/13
4978900	31C/13
5014658	31F/7
4997120	31F/4
4934400	31C/12
4965869	
4942400	31C12SE
4942100	31C12SE
4937215	31C11
4931700	31C11
4941950	31C12SE
4941650	31C12SE
4946650	31C12SE
4940850	31C/12SE
5001850	31F/4
4972650	31D/16
4971588	31D/6
5054546	31F/11
4994137	31F/4
4961320	31D/16
4990675	31F/4
4954473	31D/10
5012917	31F/7
5006190	31F/3NE
4985700	31C/13
5030550	31F/6
4935500	31C/11
5032180	31F/7
4994246	31F/4SW

4986400	31C/13
4957930	31D/9
4989664	31F/4
4996979	31F/4
5038550	31F/7
4940930	31D/9
5060260	31F/10
5021496	31F/6SW
4956066	31D/10
4965500	31D/15
4964100	31D/16
4960109	31D/15
5033950	31F/7
5035944	31F/6
4987913	31F/4
4980081	31D/16
5005560	31F/3
4989200	31F/4
5023900	31F/6
4945500	31D/9
4962310	
4996830	31F/4
4963900	31D/15
5034364	31F/6
5039700	31F/7
5032679	31F/8NW
4996500	31E/1
4942872	31C/12SW
	31E/5
4957950	31F/4
5004499	31F/3NE
5012696	31F/3
4974580	31C/16
5014750	31F/7
4978400	31C/14
5020300	31F/6
4992850 Sample LAN-01; 4991670 Sample LAN-01a	31F/1
4999300	31F/1
4973850	31D/15
4943230	31D/9
5027900	31F/6
4974780	31D/6
4943950	31D/9
4944000	31D/9
4942900	31D/9
5031906	31F/8NW
4973150	31C/13
5026500	31F/7
5026450	31F/7
5025450	31F/7
4974200	31D/15
4975150	
4976450	31D/5
5026700	31F/7
5025650	31F/7

	5026000	31F/7
	5018400	31F/7
	5019100	31F/7
	5016700	31F/7
	5016700	31F/7
	5007100	31F/2
	4995750	31F/2
	5011400	31F/2
	5006244	31F/3
	5004370	31F/3
	5025200	31F/6
	5016450	31F/7
	4986950	31D/16
	4986250	31D/16
	4987550	31E/1
	4992750	31E/1
	5012639	31F/4
		31E/12
		41H/8
	4991925	31F/4
	4990130	31F/4
	4991395	31F/4
	4987437	31F/4
	4991400	31F/4
	4989300	31F/4
		31E/12
		41H/8
	4969970	
	4971700	
	4972100	31D/16
	5028000	31F/6
	4930610	31C/5
	4936650	31C/12
	4930990	31C/5, 31C/12
	4952000	31C/12
	4918300	31C/8
4960800-4961700		31C/16
	4961700	31C/16
	4925900	31C/8
	4994250	31F/4
4931300 very approx		31C/9
	4989200	31F/4
4956000; 4957100		31C/10; 31C/15
	5007950	31F/1
	5003290	31F/1
	4996900	31F/1
	5052300	31F/10
	5060400	31F/10
	4994850	31F/4

4988961	31F/4
4943000	31C/12
5011270	
5012190	
5012414	31F/4NW
5019800	
4985750	31C/15
5046320	31F/10
	31E/12
5035800	31F/7
5038900	31F/7
	31E/13
	31E/13
	31E/13
4963680	31D/15
4973010	
4966050	31D/15
4965850	31D/15
4965100	31D/15
4964900	31D/15
4966680	31D/15
4967420	31D/15
4969950	31D/15
4972500	31D/15
4972240	31D/15
4958650	31D/15
4963050	31D/15
5011236	31F/3NW
5021292	31F/6SW
	41H/8
	31E/5
	31E/5
	31E/12
	31E/5
	31E/12
5033250	31F/8
5028450	31F/7
5033710	31F/7
5032000	31F/8
4987686	31F/4
4981840	31D/15
4991200	31E/2
4981230	31D/16
4983473	31D/16
4987990	31D/16
5010400	31F/4
5004960	31F/4
5013800	31F/6
5048950	31F/10
5048700	31F\10
5048100	31F/10
5053290	31F/10
5049250	31F/10
5059500	31F/10
	31E/12
	31E/12

	31E/12
5052100	31F/11
	31F/11
4965170	31C/13
4965160	31C/13
4944138	
5006848	
5003723	31F/3
5049930	31F/10
5060500	31F/10
4966700	31D/15
4953150	31D/10
4955211	31D/10
4947450	
4961380	
4961570	
4966550	31D/16
5035820	31F/6
5025560	

HOLE_TYPE
pit (12'd)
McConnell Shaft; Patno Shaft; Ross Shaft; 'F' Shaft
road cut samples; 1969 - 1-DDH (502')
1979 - road cut samples; 1920 - shaft (15'd) (1.3m x 2m x 33.5ml); 1920 - adit (100'); 1920 -pit; DDH 1
pit; trench
pits; trenches; open cut (15'x 20' x 6' face); shaft (10'x 10'x 35'd); shaft (6'x 7'x 12'd)
pit (6'x 8')
pit (3'x 3'x 3'd)
1980 - DDH (1-172.7 m)
outcrop sample
2 DDH
pit (20 x 10 x 8'd) near the west boundary of lot in marble; pit (10 x 8 x 6'd) near the west boundary of lot in marble; small pit ne
pit (12 x 10 x 8'd); 1955 - DDH (1-40')
pit
pit (6 x 3'd)
pit
pit
outcrop/float
2 pits
adit (inclined 2.5 x 4.5 x 30 m long) - lot 34; 4 pits - lot 35
1950 - pit
outcrop along a west facing cliff face
No.1 Pit - 220'l x 40 to 70'w x 3 to 20'd; No.2 Pit - 55'l x 40'w x 5 to 6'd (known as the Nichol or Nickel Pit); shaft (260'd - 3 com
Lake Pit (close to Crow Lake - northern ore-body) 73.1m long x 15.2 - 23.0m wide. ; Derick Pit - 61.0m long x 45.7m wide, 6.1 -
1954 - 5-DDH, magnetometer survey
No.1 Deposit - 2 small pits; No.2 Deposit - 1 open cut (20'x32'x20'd); No.3 Deposit - 2 pits ; No.4 Deposit - 1 large pit (320'l x 4
quarry
quarry (9m x 8m x 2.5m)
3 quarries
stripped area about 350'l on the lower slope of a hill which rises about 50' above the western shore of Shaw Lake; pit (12'l x 9'
dolomite band 20'w; quarry (150'l x 30'face); 3 other small quarries opened up on property
quarry (10m x 12m x 2m high); sample
quarry (100'l x 40'w x 10-15'd) along the northeast face of a hill; several openings/trenches and bands from 13 to 15m wide; sa
quarry (8m x 13m x 5.5m high) or (26'w x 43'l, 17'face) in side of cliff 60-90' high; sample
quarry (50m x 25m x 4m high) or a shallow cut (160'l x 80'w x 12'h face) with second opening in quarry floor (3-7'd x 70' x 40');
quarry (20m x 40m x 12m deep) or (60'w x 120'l x 40'd) waterfilled, on 30' hill
old quarry?
quarry (5m x 4m x 3m deep) 15'x 12' x 10'; 1962-1980 - DDH

1890 -small quarry; sample
roadcut/outcrop sample
outcrop sample
3 quarries (pits) (main quarry - 60' square, 25' face); small test quarry on the west side of the road from Eagle Lake Village to R
quarry (100m x 30m x 10m high) (160'l x 120' into side of hill); samples; small crushing plant (10 tons of rock per hour)
blasting in a 5 to 15' wide band
pit (2.5m x 3m x 3m deep); 5-DDH (600') drilled accros zone in 1930's
pits; trenches
2 pits/quarries (260m x 120m x 45m deep) - 1984 and (360m x 150m x 21m deep); plant; marble mill (1901-1907)

70 trenches; pit (10m x 30m x 3m deep); DDH
open pits; rock dumps
shaft (12'x24'x75'd); shaft (30'd and 60'apart from 1st shaft); open cut (15' x 120'); dump (150' in dia. 10-15'high)
3 pits
open cut trench-like (25' x 200'); 4 pits

pit

pit (3m x 3m x 5.5m deep); open cut (3m x 6m x 3m deep)
trench (2.4m x 9.1m); shaft with open cut (3m x 12m); open cut (15m x 3-6m); pit (3m x 3m x 1.2m deep)
pits; open cuts
shaft (50')
4 open cuts; 3 inclined shafts
open cut; 5 inclines; shaft; pits
2 pits (25' deep)

rockcut
roadcut; DDH
roadcut
outcrop samples

outcrop samples; 1 pit (4m w x 18m l x 1-4m d) ; 1 small pit
roadcut/outcrop samples; mapping, stripping, trenching; DDH 83-5023 m; bulk sample from north of Hwy 7
outcrop
quarry (500' x 100' x 10'face) Road-cut Quarry (Western Quarry) - opening made along brow of a hill III/14; quarry (300' x 100'
2 quarries (40m x 20m x 3 m high; 50m x 20m x 3m high)
quarry (52m x 100m x 6m)
quarry
quarry
quarry (200' x 200' x 25'); lime kiln (30 tpd - 1916)
pit (6m x 23m x 2.4m d); pits (4); outcrop samples
3 quarries; Smith quarry sample
quarry
quarry (3m high x 15m long)
3 quarries; lime kiln
quarry (12m w x 24m l x 1.5-5m d); marble mill (1901-1907)
quarry

outcrop (5'face)

quarry
2 shafts (125'd) 1 shaft (185'd)
Open Pit
1 shaft (125'd) 1 shaft (60'd) - 9/8; 1 shaft (30'd) - 8/10 south side of road; trenches and test pits
2 quarries
1 shaft (inclined 80N 100' vertical 213'd); trenching

4 small quarries (largest 12 x 6 x 3.6 m deep); 1960's - a mill was erected; 1986 - DDH (73-5884 m)
open pit
open pit or quarry
open pit or quarry
3 shafts; pits

outcrop

pits
shaft (100'd)
pit

O
pits; shafts
shaft (stopes to 214')
O
pit (8'd)
2 pits (10'd)
pit (3'd)
trenches; pits; 1919 - DDH (5-488 m); 1952 - DDH (30-3,006 m); 1987-1989 - DDH (217-27,000 m); 1988 - shaft (30 m)
open cuts
pit (8'd)
pit (12'd) at bottom of pit shaft (25'd)
pit (20'd)
pit
pit (10'd)
pit (15'd)
pit (8'd)
shaft (unknown depth)
1943 - pit (5'd)
pre 1890 - shaft (30'd); 1987 - DDH 7 holes
2 pits (200' apart 7'd)
pits; trenches; 2 shafts
pit
shaft (inclined approx. 30'd)
pit
2 shafts (1 is 100'd); pits; trenches
pits (numerous); trenches; shafts (shallow)
pit (22'd)
Pit (15'd 4.6 m) - 8/18; Pits (shallow); 1988 - sampling
shaft (30'd)
pit (10'd); shaft (25'd)
pit (70'l x 20'w x 65'd)
pit (4'd)
pit (25'l x 15'd) 110' apart - pit (?'d)

pit (20'd)

outcrop

open cuts; shaft (94'd)

quarry
shaft (75'd) (23m d)
quarry (30'x 80'x 12-15'd)

4 quarries

pit

outcrop
pits
trenches; shaft (20'd)

quarry
quarry; DDH (1974)

quarry

Pit
pit (6'd)

2 Pits
Trenching
Stripping & trenching
quarry; 1962-1963 - DDH; samples

No. 1 shaft -sealed - Conley; No. 2 shaft -sealed - Conley; No. 3 shaft (611'd) - Conley; No. 4 shaft (542' via Conley shaft) - He
1 shaft (90'd); 1 pit (15'l x 12'w x 4'd)
pits - deepened by blasting 1966
pit (12'l x 10'w x 10'd)
2 quarries (overgrown) 3/4 mile apart

pits; trenches

pits; trenches

UN

O

quarry

O

O

shaft; pits; strippings
UO

trench

pit (1.8m x 2.4m x 3m deep)
pit (5m x 5m x 3m deep); adit (30m)

UO

quarry (14'face)
a series of open cuts from 150' x 30' x 25'd to 50'x 15' x 20'd
shaft; small dump near shaft; small pits
open cut/adit (18'w x 125'l)
pit (25')
quarry (10m x 6m x 2m)
quarry (10m x 6.5m x 2.5m)
open pit (150'dia. x 60'd)
open pit (25'dia x 30'd); pit (water-filled)
1866 - shaft sunk
main (water filled) pit (60'l x 50'w x 75'd) below this a shaft (75'd with 3 underground levels with drifting); 30'd to water level; op
2 shafts connected at 65'(20m) and 200'(61m); drifts, crosscuts, stoping; 2 mills - 1 for the white talc and 1 for the grey talc; 5 s
quarry
quarry (25'w x 20'd with 12' face)
open cut (200'l x 20'w x 20'd); large dump
pit (14'x 8'x 8'd to water level); pit (14'x 16' x 8'd to water level); stripping, trenches
pit (12'x 10' x 6'd)
quarry (9m x 6m x 4.5m) (30' x 20' 15'face); test pits
ddh - 1956; pit (6'x 8'x 3'd); pit (10'x 8'x 5'd)
quarry
quarry (10' face)
quarry (6.5m x 25m x3m)
quarry (8m x 12m x 3m)
quarries (4)
open pit (32'l x 85'w x 84'd) - abandoned 1901; shaft (500'd) levels every 60', stoped to 275'
open pits (several) (40'face)
quarry
quarry (10'face); sample
2 quarries
quarry (12m x 6m x 4m)

test pit (10'd)
quarry (30' x 8' x 4-8'd)
trenches; 2 pits

open pit (1/2 mile l x 1/4 mile w)
quarries/pits (4)

quarries (5)

quarries (6); small wooden mill; outcrop samples
quarry (24m x 7.5m x 3.5m) (80'x 25' x 12'd)
quarry
Quarry

shaft; several pits
O
pit (100m x 300m x 10m deep); trenches
pit (50m x 12m x 3m deep); trenches
O
O
pit No. 1 (122 m long x 3-9 m wide) with 52 m shaft at NE end; shaft (400' N of pit No.1) 106' deep; 1893-1901 - DDH; 1984 - D
O

pits (3 - shallow); drillholes (4 - 60-75m l)

pits (3); stripping, blasting
outcrop
quarry
outcrop
1972-1973 - soil geochmistry survey; 1988 - geological mapping
outcrops
outcrops
outcrops
outcrop

shafts (5) (18m - 47m deep) - decline; pits; trenches
pit (5'x 12')
outcrop
pits (2 - both shallow 50' apart)
outcrop
shafts (2)
pits (2)
outcrops
outcrop
pit
outcrop
outcrop
outcrops
pit (100'l x 15'd)

quarry

quarry (10m x 2m deep)

O
pit
pit (9'd)
outcrop
pit (5'd)
outcrop

pits (2)

open cuts; pits; adits (50' x 100' x 200' deep)
quarry

pits
O
quarry
quarry
UN
O
quarry; lime kiln
quarry
pit (8m - 4m deep); shaft (4m x 4m x ?); cut (3m x 6m x 2.5m deep)
pit

pits - water filled
open cuts on lake shore; 2-3 small pits on slope of railroad embankment towards lake

pits

O

quarry

O

1943 - pit (8'd)
shaft (10'x10'x50'd); open cut (15'x15'x 9'face); trench (50'l)
rock cut

pit or quarry (60'x 25'x 30'face); outcrop samples
outcrop samples

quarry; 1982-1985 - stripping, trenching, 5 DDH

trench; 7 d.d. holes 845'
outcrops
outcrop
outcrop
outcrops
pit (shallow)

shaft

ddh (9-1323')
pits
drill holes (458m x 153m x 22.3m-26.8m); blasting pits
ddh (12-1841'); ddh (7-759')
pit (50m x 80m)
outcrop
quarry (abandoned)
drilling, sampling, assays
6-DDH (1976-1980)
pit ?

quarry; sample
2 trenches; stripping 100' along strike; 2 small dumps nearby
2 pits (now filled in); 1 pit (shallow, 270' SW of the 2 pits); dump (overgrown by moss and brush)
rock sample
rock sample
open cut (25'l x 10'w x 12'd); trench (45'l x 4'w x 4'd) overgrown

trench; outcrop several meters south of the trench

quarry in rocky pasture 10-20 years overgrown
quarry
pit (15'w x 9'd); small plant (steam boiler, drill, pump)
roadcut
2 quarries/pits (water filled in bottom)
quarry (face up to 40')
pits
quarry/pit (15'x10'x8'd)

outcrop sample
1914 - 2 pits/shafts (25'd); 1971 - 2 DDH (210'd); 1972 - 7 DDH (2,509'd); 1974 - 23 DDH
quarry (46m to 18 m x 5.5 m high); quarry sample
trench (25'x 4'x 6'd); pit or shaft (10' x 10' water-filled); pit (10' x 16')

pits; 1955 - 1-DDH (425')

quarry; quarry sample
outcrop sample

quarry?
outcrop sample

Boulder Sample

quarry
road cut

quarry
outcrop/ridge samples (366m l x 122m w); 3 pits
several small pits

1916 - shaft; 1941 - 5 pits & trenches
outcrop sample
outcrop/shoreline
pit (2m x 5m) now filled in and covered with vegetation
outcrop sample

outcrop sample
outcrop

2 small pits
outcrop/roadcut samples
1967-1970 - 13 DDH
1906 - shaft (45' or 13.5m) - almost completely overgrown

1929 - 35 pits (1 to 2m d spaced at 5m intervals) - mostly caved in; trench (15.3m long)

outcrop sample
quarry (150' x 150' x 6'); quarry (120' x 120' x 5-10')
outcrop
shaft - 1868; pit (70'l x 6'w x 50'd)
outcrop sample
quarry

Rock cut
roadcut samples
outcrop sample
quarry; 1988-1989 - 4 DDH
outcrop samples
outcrop sample
outcrop samples
narrow fringe along the south and east shores of lake
outcrop sample

1954 - 19 DDH (1276') on adjacent 4 claims; 1955-1958 - stripping, trenching, bulk sampling, mapping
DDH
quarry
outcrop sample
samples
samples
outcrop sample
?
?
?
roadcut samples; outcrop samples
outcrop

sample
sample
outcrop
outcrop samples
outcrop
outcrop sample
outcrop sample
outcrop sample
outcrop sample
outcrop samples
roadcut sample
pit (12 x 17 x 1-3'd)
outcrop?
small quarry
1968 - 2-DDH (203') (61.9m)
ridge/outcrop sample
1977 - outcrop sample; 1903 - sample
quarry
pit
outcrop sample
2 outcrops?
outcrops; old pit (north 1/2)
outcrop
outcrop
outcrop
outcrop sample
roadcut sample
outcrop sample
roadcut/outcrop sample
outcrop

outcrop?
outcrop
outcrop
quarry?
outcrop?
outcrop sample
roadcut/outcrop; abandoned quarry/open cut
outcrop sampling; 1987 - trenching; 1989 - DDH (5-252 m)
outcrop
outcrop
outcrop
outcrop
outcrop
outcrop sample
pit; outcrop samples
outcrop

1985-1987 - DDH, stripping; 1988 - mapping, DDH, trenching, channel sampling; 1990 - proposed quarry (at UTM's)
outcrop samples
outcrop sample
outcrop samples
outcrop sample
outcrop sample
outcrop sample
outcrop

outcrop sample
1980 - DDH-3
outcrop sample
outcrop sample
test pit
roadcut/outcrop sample
outcrop/roadcut sample
outcrop/roaduct sample
quarry
outcrop sample
outcrop
quarry
exposures (3); open pit (western part of lot)
quarry (small)
outcrop
outcrop
Road-cut
Road-cut
Road-cut
Road-cut
Road-cut
Road-cut
roadcut
roadcut
roadcut
outcrop
outcrop
outcrop?

quarry
quarry
pits (small)
?
outcrop?
quarry (600' x 25-100' x 3-20')
outcrops
roadcuts
quarry
quarry ; test pits; DDH-12
'great bodies'
quarry

outcrop sample

quarry
outcrop?
road-cut sample
outcrop sample
quarry
outcrop
outcrop
quarry
marble belt
marble belt
test pits

strippings (12.2 sq m)
road-cut sample
road-cut sample
outcrop
stripping; test pit (27'd); 1951 - 4-DDH (1885'); 1969 - 2-DDH (II/16 N)
1957-1959 - 5 trenches (5'w x 15'- 25'l), several pits, DDH; 1960 - 2-DDH; 1969 - 5-DDH
several small pits (largest 15'd)
outcrop sample
outcrop sample
?
2 or 3 openings

shaft (100'd) - 150' drifting; shaft; adit

2 openings
NE pit (1m x 2m x 1m d); SW pit (1m x 2m x 1m d)
pit (3m x 3m x 3m) - 50 years old (Easton 1987)
1979 - linecutting, mapping, VLF and magnetometer surveys & DDH
trench(s) (overgrown)

SOURCE_1
OGS P2611-791

OGS MDIR SO0126
OGS MDIR SO0161
GSC 1936 Memoir 195:21

OGS 1990 OFR 5729:77

MDIR SO0119
OGS 1981 MDC 22:71-72
OGS MDIR SO0067
DEMR/CANMET 1905 #18
OGS 1987 OFR 5639:94,120
OGS 1983 OFR 5425:140

OGS 1943 AR 52(2):43
DEMR/CANMET 1912 #100:318
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TWEEDMIN MOI#212011.0 DATE: 02/25/88
TWEEDMIN MOI#212012.0 DATE: 02/25/88
OGS MDIR SO1114
TWEEDMIN MOI#212017.1 DATE: 02/25/88
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OGS MDIR SO1613
OGS MDIR SO1608
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OGS MDIR SO0517
TWEEDMIN MOI#213062.0 DATE: 02/25/88
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TWEEDMIN MOI#307002.0 DATE: 02/25/88
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OGS MDIR SO0459
TWEEDMIN MOI#308005.0 DATE: 02/25/88
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OGS MDIR SO0293
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OGS MDIR SO0450
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OGS MDIR SO0290
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TWEEDMIN MOI#321010.0 DATE: 02/25/88
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OGS MDIR SO1126
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OGS 1947 AR 56(6):91-94
OGS 1979 OFR 5271:93-94,96

OGS 1947 AR VOL 56 PT 6 P90

TWEEDMIN MOI#221001.0 DATE: 02/25/88

OGS 1947 AR VOL 56 PT6 P40-41

OGS IMR 40:23

GSC 1970 Paper 69-50:84

OGS 1968 MRC 11 P 259

OGS 1968 MRC 11 P252

OGS 1964 GC 12

OGS 1969 AR VOL 25 PT 2

TWEEDMIN MOI#209030.0 DATE: 02/25/88

OGS 1943 AR 52(3):48-49

GSC 1958 Bulletin 45:16-17

GSC 1958 Bulletin 45

OGS 1990 OFR 5712:125

OGS 1983 OFR 5425:178
OGS 1985 OFR 5548:152c
McMurray, V.A. 1977 Guide to Mineral Locations

Kennedy, I. 1986 personal communication

OGS 1983 OFR 5425:172
GSC 1965 MP 8:94

OGS 1985 OFR 5537:129,194

OGS 1981 MDC 21:62

McMurray, V.A. 1977 p.26 Guide to Mineral Locations

OGS 1981 MDC 22:14 + Map P2209 Pembroke

SOURCE_9

Anderson, A. 1954 The Canadian Mining and Metallurgical Bulletin p.684-686

DEMR/CANMET 1927 #677:29
OGS 1943 AR 52(2):47-48 + Map 52a Haliburton Area

GSC 1986 MP 39:22-24

OGS 1983 OFR 5425:174

OGS 1964 IMR 16:23-25

OGS 1955 AR 64(8):55 + Map 1955-8 Dungannon & Mayo
GSC 1970 Paper 69-50:121

OGS 1985 OFR 5537:130,190

OGS 1987 OFR 5678:110-111

Meyn, H. 1983 Property Visit Report

GSC 1971 Paper 70-50:27

OGS 1945 AR 53(3):104

OGS 1982 OFR 5378

OGS 1964 GC 12 P10 M 2053

OGS 1964 GC 12 P10 M 2053

OGS 1990 OFR 5729:55-59
TWEEDMIN MOI#505008.0 DATE: 02/25/88

OGS 1922 AR VOL 31 PT6 P16-17

OGS 1876 CATALOGUE P 8

TWEEDMIN MOI#104020.0 DATE: 02/25/88
OGS 1947 AR VOL 56 PT 6 P65-66

TWEEDMIN MOI#104041.0 DATE: 02/25/88
OGS 1947 AR VOL 56 PT6 P41-42

OGS 1985 Map P2611-0831 Kingston

OGS 1964 GC 12:11

GSC PAPER 69-50

OGS 1990 OFR 5712:125

TWEEDMIN MOI#217019.0 DATE: 02/25/88

TWEEDMIN MOI#304014.0 DATE: 02/25/88

OGS 1990 OFR 5712:75-77

OGS 1985 Map P2611-0241 - Canada Talc

TWEEDMIN MOI#222027.1 DATE: 02/25/88

TWEEDMIN MOI#218024.0 DATE: 02/25/88

OGS 1942 AR 51(4):74 + Map 51d

TWEEDMIN MOI#308004.0 DATE: 02/25/88

GSC Bull 45:47

OGS IMR 10:31

GSC 1987 MP 41:103
1982 Tweed Property Visit Report
GSC 1987 MP 41:86-87
GSC 1958 Bulletin 45:17-18

Steele, O. 1981 Tweed Property Visit Report
TWEEDMIN MOI#216026.0 DATE: 02/25/88
GSC 1958 Bulletin 45:65
Steele, O. 1982 Tweed Property Visit Report

OGS 1969 MRC 12 P138-139
GSC 1970 Paper 69-45:439

OGS 1971 IMR 39:7
GSC 1970 Paper 69-50:105
DEMR/CANMET 1917 217
TWEEDMIN MOI#216045.0 DATE: 02/25/88

DEMR/CANMET 1938 781:101-102
TWEEDMIN MOI#216051.0 DATE: 02/25/88
TWEEDMIN MOI#216052.0 DATE: 02/25/88
Steele, O. 1982 Tweed Property Visit Report
Steele, O. 1982 Tweed Property Visit Report

1981 Tweed Property Visit Report
1981 Tweed Property Visit Report
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TWEEDMIN MOI#216063.0 DATE: 02/25/88

TWEEDMIN MOI#215003.0 DATE: 02/25/88

OGS 1990 OFR 5715:69

OGS 1990 OFR 5715:113-119
TWEEDMIN MOI#215045.1 DATE: 02/25/88

OGS 1985 Map P2611-1064 Kingston

NMI FILE 31 C16 VER 2

OGS 1990 OFR 5729:60-65
GSC SEP REPT 896, 1904 P12

OGS 1947 AR VOL 56 PT6 P91

TWEEDMIN MOI#220016.0 DATE: 02/25/88

OGS OFR 5271:76-87
OGS 1982 GR 216:65,67 + Map 2449 Long Lake

NMI FILE 31C15 M04

OGS GR 241:48

OGS 1985 Map P2611-0484 Kington

GSC 1899 AN REPT VOL 12

NMI FILE 31C/10 ZN 2

OGS 1943 AR 52(3):48

OGS 1943 AR 52(3)

OGS 1985 Map P2611-62 Kingston Area

OGS 1967 MRC 6:58

OGS 1986 OFR :25-26

OGS 1983 OFR 5425:193

Meyn, H.D. 1981 Property Visit Report

SOURCE_10	SOURCE_11
OGS 1965 IMR 20:45-46	GSC 1965 MP 8:99
Goodwin, W.L. 1929 GSC 1958 Bulletin 45:22-25	OGS 1943 AR 52(2):48 + Map 52a OGS 1968 MRC 11:287-288
Meyn, H.D. 1982 Bancroft Property Visit Report	
GSC 1965 MP 8:75	
OGS 1964 IMR 16:21-23 OGS 1983 OFR 5425:176	GSC 1965 MP 8:74-75 OGS 1984 OFR 5509
OGS 1985 Map P2611-16 Kingston Area	OMNR 1985 Cumby, T. Inactive Mine Hazards Study Lindsay District

OGS 1981 MDC 21:67-68 + Map P1980 Pembroke	OGS 1983 OFR 5425:186
OGS 1981 MDC 21:62 + MAP P1980 Pembroke	OGS 1983 OFR 5425:187

OGS 1990 OFR 5712:125

TWEEDMIN MOI#212010.0 DATE: 02/25/88

OGS 1903 AR VOL 12 P112-113

OGS 1942 AR 51(4):41

OGS AR 51(4):44

TWEEDMIN MOI#505002.0 DATE: 02/25/88

OGS 1899 AR VOL 12 P28,29

TWEEDMIN MOI#104052.0 DATE: 02/25/88

GSC 1898 AR VOL 12 P20-21

GSC NMI 071904

OGS MRC 11:248

TWEEDMIN MOI#302016.0 DATE: 02/25/88

OGS 1990 OFR 5715:133-139

TWEEDMIN MOI#223018.0 DATE: 02/25/88

OGS 1985 Map P2611-0243 - Canada Talc

TWEEDMIN MOI#222029.0 DATE: 02/25/88

OGS 1979 MDC 18:41

OGS OFR 5515:286-294

Steele, O. 1982 Tweed Property Visit

TWEEDMIN MOI#216011.0 DATE: 02/25/88
GSC 1970 Paper 69-50:132

1981 Tweed Property Visit Report
TWEEDMIN MOI#216030.0 DATE: 02/25/88

OGS 1985 Map P2611-0161 Kingston Area
DEMR/CANMET 1914 346:58

1981 Tweed Property Visit Report
GSC 1987 MP 41:82
TWEEDMIN MOI#216044.0 DATE: 02/25/88

TWEEDMIN MOI#216050.0 DATE: 02/25/88

TWEEDMIN MOI#216053.0 DATE: 02/25/88
TWEEDMIN MOI#216054.0 DATE: 02/25/88

TWEEDMIN MOI#216060.0 DATE: 02/25/88
OGS 1990 OFR 5712:91-93
GSC 1970 Paper 69-50:102

TWEEDMIN MOI#216009.0 DATE: 02/25/88

Steele, O. 1982 Tweed Property Visit Report
GSC 1970 Paper 69-45:201,508

Steele, O. 1982 Tweed Property Visit Report

GSC NMI 500596 CU 3
DEMR/CANMET 1922 583:31

OGS 1985 Map P2611-194,198 Kingston Area
TWEEDMIN MOI#216041.0 DATE: 02/25/88
Steele, O. 1982 Tweed Property Visit Report

TWEEDMIN MOI#216064.1 DATE: 02/25/88
GSC 1987 MP 41:79

TWEEDMIN MOI#215018.0 DATE: 02/25/88

TWEEDMIN MOI#215046.0 DATE: 02/25/88

OGS 1990 OFR 5715:179-184 TWEEDMIN MOI#320017.0 DATE: 02/25/88

TWEEDMIN MOI#321001.0 DATE: 02/25/88

OGS 1979 OFR 5271 P87 TWEEDMIN MOI#220004.0 DATE: 02/25/88

OGS OFR 5515:259-271

TWEEDMIN MOI#214030.5 DATE: 02/25/88

DEMR/CANMET 1911 #142

MDMR 86-TUD-27

GSC Memoir 6

DEMR/CANMET 1913 184

GSC 1970 Paper 69-50:116 Sangster 1970 Ph.D. Thesis p.271

OGS 1968 MRC 7:65

OGS 1977 MP 70:250

SOURCE_12

OGS 1981 MDC 21:55-58 + Map P2209 Pembroke-Renfrew

OGS 1957 Map 1957b Haliburton Bancroft Area
GSC 1970 Paper 69-50:140-141

GSC 1970 Paper 69-50:119
OGS 1986 OFR 5585:216-219

OGS 1990 OFR 5712:51-54

OGS 1990 OFR 5729:42-46

GSC 1987 MP 41:103

GSC 1899 AR 4(R):34
DEMR/CANMET 1940 803:72-74

GSC 1987 MP 41:84

Steele, O. 1982 Tweed Property Visit

OGS 1980 MDC 20:173

SOURCE_13

OGS 1983 OFR 5425:132

GSC 1958 Bull 45:18-20
OGS 1978 Map P1505 Ont. Mineral Potential

OGS 1983 OFR 5425:177

TWEEDMIN MOI#216012.0 DATE: 02/25/88

GSC 1909 Summary Report for 1908:12
TWEEDMIN MOI#216035.0 DATE: 02/25/88

TWEEDMIN MOI#216040.0 DATE: 02/25/88

TWEEDMIN MOI#216062.0 DATE: 02/25/88

SOURCE_14	SOURCE_15
OGS 1968 MRC 11:287 OGS 1980 MP 96:92-94	GSC 1970 Paper 69-50:138-139 OGS 1982 OFR 5372:34 + Map P2488
OGS 1986 OFR 5585:220-223	OGS 1990 OFR 5712:126

Steele, O. 1982 Tweed Property Visit Report

GSC 1915 Memoir 74:48,89

Wilson, M.E. 1922 Canadian Mining Journal 42:356

GSC 1958 Bulletin 45:60-62

SAMPLE

G13-1, G13-2, G13-3
S7-1, S7-2, S7-3

grab sample by Easton 1987

3 (Lebaron & MacKinnon 1990)

B8 (CaO 29.6) Storey & Vos 1981
67 (Goudge 1938)
67A (Goudge 1938)
66A (Goudge 1938)
66 (Goudge 1938); 419 (Grant & Kingston OFR 5509 1984)

24, 25 (Parks 1912)
22 CaO=50.74%; 22A CaO=49.81% (Goudge 1938)
23 (Goudge 1938) CaO = 50.61
analysis of crushed material provided by owners CaO 50.28%; MgO 37.82%
20 (Goudge 1938); Analysis from Mr. Bolender 1918 (CaCO3 29.58; MgO 20.00)

126, 127 (Goudge 1938); T-2 (Lebaron & MacKinnon 1990)

from north side of County Road 11 MA-2 (MacKinnon 1990)

87-160, 87-161 (MacKinnon 1990)

2-3-88, 2-4-88, 2-5-88, 2-6-88,(are from the pit area at south end of property) MA-4, 2-8-88 are from the east side of County R
12 thin sections & 4 polished sections; beneficiation study (Mackinnon 1990)

131,132 (Goudge 1938) III/13?; PM69, PM70, PM71 (Storey & Vos 1981)

134, 134A (Goudge 1938); PM99, PM100, MP101 (Storey & Vos 1981)
129 (Goudge 1938); PM53 - PM56 (Storey & Vos 1981)

MQ2-1 (Storey & Vos 1981); R3 (Vos 1977)
89 ROSS-02 (Lebaron & MacKinnon 1990)
analysis by Miller 1904

126 (Goudge 1938); analysis (Parks 1912)

528b (Papertzian & Kingston 1982)

1675 (Papertzian & Kingston 1982) Lot 22, Con 9

736 (Papertzian & Kingston 1982); 87-403 (MacKinnon 1990)

1580 (Papertzian & Kingston 1982)

2 (Lebaron & MacKinnon 1990)

87-508, 87-509, 87-509A (MacKinnon 1990)

135, 135A, MA4-1 to MA4-6, PM22, PM24
PM18 to PM20

89 BEL-01 (Lebaron & MacKinnon 1990)

68 (Goudge 1938)

89-MAD-01 (Lebaron & MacKinnon 1990)
42a, 42b (Lebaron & MacKinnon 1990)

44 (LeBaron & MacKinnon 1990)

23 (Parks 1912)

118 (Goudge 1938)

17, 17A (Goudge 1938)

PM52 (Storey & Vos 1981)

PM32, MA3-1, MA3-2

28, 28A, 28B (Goudge 1938)

PM 42

21, 21A (Goudge 1938)

grab sample (Easton 1987) 50ppm Co, 110ppm Cu, and trace Ag
S6-B (Storey & Vos 1981)

24 (Goudge 1938)
analysis take by Hewitt

MA13-1, PM91, PM92, PM93; MA13-2 - Grattan Twp.

130 (Goudge 1938)
146, 146A

317 (Goudge 1938)

1 (OGS AR 62(5):14)

PM43 to PM46, MA6-1 to MA6-3

PM50, MA2-1(10 ppb Au), MA2-2, MA2-3 (Storey & Vos 1981); PM144 (9 ppm As) - was taken from 2.4 km south of the utm lo

242

65 (DEMR/CANMET #781)
MA4-7, PM23
MA7-1
PM94

140, PM6 to PM16, MA5-1; MA-1 (MacKinnon 1990)

MA6-1, MA6-2

S3-2, Peg8
Pegmatite Sample S3-1
MA8B-1
M6
MA8A-1, MA8A-2, MA8A-3, MA8A-3, MA8A-4, M5, S5-1
MA13-2

26 (Goudge 1938)
1903-1 (Storey & Vos 1981); 4 Limekiln quarry, York River, near Foster's rapids (Miller 1904)

372, 372A (Goudge 1938)

B9 (Vos 1977)
B3 (Vos 1977)
B2 (Vos 1977)
B6 (Vos 1977)

PM48, PM49 (Storey & Vos 1981)
1-1-88, 1-2-88, MA-6 (OFR 5715)
87-504, 87-504b, 87-506b (MacKinnon 1990)

M-1, M-2, (Lebaron & MacKinnon 1990); MQ 10 (Storey & Vos 1981)
455, 460 (Papertzian & Kingston 1982)
1745 (Papertzian & Kingston 1982); 89 RAM-01 (Lebaron & MacKinnon 1990)
1758 (Papertzian & Kingston 1982); 89 RAM-01a (Lebaron & MacKinnon 1990)
1804 (Papertzian & Kingston 1982); 89 RAM-02 (Lebaron & MacKinnon 1990)
89 ROSS-03 (Lebaron & MacKinnon 1990)
89 ROSS-04 (Lebaron & MacKinnon 1990)

835 (Grant & Kingston 1984)

1819 (Papertzian & Kingston 1982)
1817 (Papertzian & Kingston 1982)

PM-117 (Vos & Storey 1979)
PM-135 (Vos & Storey 1979)

133,133A (Goudge 1938)

1953-2
PM-40

141, 142

MQ10 (Storey & Vos 1981)

25 (Goudge 1938)

MA9-1 (Storey & Vos 1981)
128 (Goudge 1938)

analysis (GSC AR 12)

PM 35 (Storey & Vos 1981)
PM 36 (Storey & Vos 1981)

M1 (Vos 1977)
M3 (Vos 1977)

assays by Easton 1987 (highest amounts listed under elements)
3 assay samples - not anomalous

STATUS
Occurrence
Occurrence
Past Producer; Mineral Collecting Site (Now Under Water)
Occurrence
Occurrence; Marble Belt samples
Occurrence
Occurrence
Raw Prospect; Mineral Collecting Site 1A (2/1 31F/6) and 1B (2/2 31F/3); Private Land
Occurrence; Mineral Collecting Site 3; Private Land
Occurrence
Occurrence
Occurrence
Occurrence; Marble Belt
Prospects (4)
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producer
Occurrence
Occurrence
Past Producer; Mineral Collecting Site 15
Occurrence; Mineral Collecting Site
Past Producer
Past Producer; Mineral Collecting Site
Occurrence
Past Producer; Mineral Collecting Site 2
Past Producer
Past Producer
Occurrence
Occurrence
Occurrence
Past Producing Quarry?
Past Producer/Prospect
Prospects (3)
Past Producing Quarry; Mineral Collecting Site 1
Past Producing Quarry ; Mineral Collecting Site 8; Private Land
Prospect; Mineral Collecting Site 24
Past Producing Quarry; Mineral Collecting 1B; Private Land
Past Producing Quarry; Mineral Collecting 1A; Private - Surface Rights; Crown - Mining Rights
Past Producing Quarry; Mineral Collecting 28; Private Surface Rights; Crown Mineral Rights
Past Producing Quarry; Mineral Collecting Site 22; Private Surface Rights owner: Mr. Webb Wasmund, 176 Hastings St. N, Ba
Occurrence
Past Producing Quarry (terrazzo chips); Prospect (marble filler) 1990; 2 mining leases EO28495 and EO28496 held by Novago

Past Producing Quarry
Roadcut Occurrence
Roadcut Occurrence
Producing Quarry (active 1990); Mineral Collecting Site 1; Private Land
Past Producing Quarry
Occurrence
Occurrence
Occurrence
Producing Quarry (active 1990)

Prospect

Past Producer
Past Producer
Past Producer
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producer
Occurrence
Past Producer
Past Producer
Occurrence
Occurrence
Occurrence
Roadcut Occurrence
Occurrence
Occurrence

Roadcut/Occurrence; Past Producer
Roadcut Occurrence
Occurrence
Past Producing Quarry; Mineral Collecting Site 4; Private Land
Past Producing Quarries
Past Producing Quarry
Past Producing Quarry
Past Producing Quarry
Past Producing Quarry
Past Producing Quarry
Producing Quarry (active 1990)
Past Producing Quarry?
Past Producing Quarry
Past Producing Quarry
Past Producing Quarry
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence

Past Producer
Occurrence
Prospect
Past Producing Quarries
Past Producer; Mineral Collecting

Active Prospect
Past Producer
Past Producer
Past Producer
Past Producer

Past Producer
Past Producer
Past Producer
Occurrence
Occurrence
Occurrence
Occurrence
Active Prospect
Past Producer
Occurrence
Past Producer
Past Producer
Past Producer
Occurrence
Occurrence

Occurrence
Occurrence
Past Producer/Prospect
Occurrence
Past Producer
Occurrence
Past Producer
Occurrence - worked in a small way
Occurrence
Past Producer
Past Producer?
Active Prospect
Occurrence
Occurrence; Occurrence
Past Producer
Occurrence
Occurrence
Occurrence
Prospect?

Outcrop/Prospect

Past Producer
Occurrence

Producing Quarry (active 1990)
Past Producer
Prospect Quarry
Occurrence
Past Producer
Occurrence

Occurrence
Occurrence
Occurrence
Past Producer

Past Producer
Past Producing Quarry
Past Producer; Mining Lease (1990)

Past Producing Quarry
Occurrence
Occurrence
Occurrence

Occurrence

Occurrence

Occurrence

Past Producing Quarry (early 1900's); Developed Prospect (1990)- mining lease to Pleuss-Staufer from C.R. Young

Producer (active 1990)
Developed Prospect
Occurrence
Occurrence
Past Producing Quarry; Mineral Collecting

Occurrence

Occurrence

Past Producing Quarry
Occurrence/Prospect?

Past Producer
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producer?; Developed Prospect
Occurrence
Past Producer
Occurrence
Developed Prospect ?
Past Producing Quarry; Mineral Collecting
Raw Prospect
Past Producer; Mineral Collecting
Past Producer; Mineral Collecting
Occurrence; Mineral Collecting
Past Producer
Past Producer/Producer (1986)
Past Producer
Past Producer
Occurrence
Past Producer; Mineral Collecting
Past Producer; Mineral Collecting?
Past Producing Quarry
Intermittent Producer (April 1988)
Past Producer; Mineral Collecting
Past Producer
Past Producer
Past Producer
Occurrence
Past Producer; Mineral Collecting
Past Producer
Past Producer
Intermittent Producer (1985)
Past Producer
Past Producer; Mineral Collecting
Past Producer
Past Producer; Mineral Collecting
Past Producer/Prospect; Mineral Collecting
Past Producer; mineral collecting
Past Producer

Occurrence
Past Producer
Occurrence
Occurrence

Past Producer
Past Producing Quarry

Prospect (1990); Past Producing Quarries (6)
Past Producing Quarry; Mineral Collecting

Past Producing Quarry

Past Producer; Mineral Collecting

1957 - 15,000 bags (4 cu. ft. each) produced
Past Producer

Past Producer

Occurrence
Occurrence
Occurrence
Occurrence
Occurrence

Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producer
Occurrence
Occurrence
Prospect
Occurrence
Occurrence

Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence

Occurrence
Past Producing Quarry

Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence

Occurrence

Intermittent Producer (active on demand as of 1987) - talc-tremolite currently being extracted and processed. The tremolote pr

Past Producer; Mineral Collecting

Occurrence
Occurrence

Occurrence
Occurrence

Past Producing Quarry; Mineral Collecting
Past Producer
Past Producer
Occurrence

Past Producer
Occurrence

Occurrence

Occurrence

Past Producer

Past Producer
Occurrence
Past Producer
Occurrence
Occurrence

Occurrence

Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producing Quarry; Marble Belt/Occurrence
Marble Belt/Occurrence

Producing Quarry (active 1990)
Occurrence?
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producer
Past Producer - gravel pit
Past Pilot Plant

Occurrence

Occurrence
Prospect
Occurrence
Occurrence
Past Producing Quarry
Occurrence; Mineral Collecting 4
Occurrence
Sample Location
Sample Location
Past Producer
Occurrence
Occurrence
Occurrence
Past Producer?
Past Producer?
Past Producer
Occurrence/Outcrop
Intermittent Producer (1990)
Past Producing Quarry
Occurrence
Past Producing Quarry
Occurrence
Occurrence
Occurrence/Zones; Mineral Collecting Site 8
Past Producer
Occurrence
?
Occurrence
Occurrence
Prospect Quarry
Marble Belt Sample
Occurrence?
Occurrence
Marble Belt Sample
Past Producing Quarry
Belt/Outcrop
Occurrence?

Past Producing Quarry
Occurrence/Road Cut; Mineral Collecting Site 4
Occurrence
Past Producing Quarry
Past Producing Quarry
Occurrence; Mineral Collecting Site 1; Private Land
Past Producer; Mineral Collecting Site 3; Private Land
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Road-cut Occurrence
?
?
Marble Belt Sample
Occurrence
Occurrence
Occurrence
Roadcut/Prospect; Marble Belt Samples
Occurrence; Provincial Park
Occurrence
Occurrence?
Occurrence; Mineral Collecting Site 3; Private Land
Occurrence ?
Occurrence
Occurrence
Occurrence/Outcrop; Mineral Collecting Site 60
Occurrence/Prospect; Patented S part of lot - Surface Rights Only
Occurrence
Past Producing Quarry
?
Occurrence
Roadcut/Prospect
Roadcut/Prospect; Marble Belt Samples
Outcrop/Prospect
Producing Quarry (active 1990)
Prospect
Prospect
Outcrop/Prospect; Mineral Collecting Site 1
Occurrence; Provincial Park
Marble Belt Sample
Occurrence
Occurrence; Mineral Collecting Site 2; Surface Rights - Patented; Mining Rights - Crown
Occurrence; Claims Patented/Reserved in Petroglyphs Provincal Park
Occurrence
Past Producing Quarry
Occurrence
Marble Belt
Marble Belt
Marble Belt Sample
Occurrence
Occurrence
Occurrence
Roadcut Occurrence; Marble Belt/Occurrence
Marble Belt/Occurrence

Occurrence
Occurrence
Marble Belt/Occurrence
Marble Belt Samples
Occurrence
Marble Belt Sample
Marble Belt Sample
Marble Belt Sample
Marble Belt Sample
Marble Belt Sample
Marble Belt Sample
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence; Patented Land
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Roadcut/Occurrence
Occurrence
Roadcut/Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Past Producing Quarry
Occurrence
Marble Belt Sample
Roadcut Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence; Mineral Collecting Site 44; Crown Land - Egan Chute Provincial Park
Occurrence
Occurrence
Developed Prospect; Mining Lease EO592378
Prospect Samples
Prospect Outcrop
Prospect Outcrop
Marble Belt Sample; Prospect Outcrop
Occurrence
Occurrence
Prospect?

Prospect?
Occurrence/Prospect?
Occurrence/Prospect?
Occurrence/Prospect?
Occurrence
Occurrence/Prospect?
Occurrence/Prospect?
Occurrence/Prospect?
Past Producing Quarry
Occurrence
Occurrence
Past Producing Quarry
Occurrence
Past Producing Quarry
Occurrence
Occurrence; Private Property
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence
?
Past Producing Quarry
Past Producing Quarry
Occurrence
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Past Producing Quarry
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Occurrence
Past Producing Quarry
Occurrence
Occurrence
Past Producing Quarry
Occurrence
Occurrence
Occurrence
Past Producing Quarry
Occurrence
Road-cut Occurrence
Occurrence
Past Producing Quarry
Occurrence/Marble Belt
Occurrence
?
Marble Belt
Marble Belt
Occurrence

Occurrence
Marble belt/road-cut sample
Road-cut Sample
Outcrop/Occurrence
Anmomalies/Occurrence; II/16 - Private Surface Rights; Crown Mining Rights; II/17 - Private; III/18 - Private
Anomalies/Prospect; Mineral Collecting Site 11; Private - Surface Rights Only; Crown - Mining Rights
Prospect
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence; Mineral Collecting Site 2; Crown Land
Occurrence
Past Producer
Occurrence
Occurrence
Occurrence
Occurrence
Occurrence\Exploration
Past Producer; Mineral Collecting Site 5; Surface Rights - Private; Mining Rights - Crown
Occurrence

PROD_HIST

1889- discovered; 1896-1954 - 85,164 tons; 1944-1954 - over 45,000,000 lbs (20.45 million kg) of finished graphite products pr

1899 - 1915 - 7,600 tonnes; 1899 - 1914 - 8,500 tons of ore (Bartlett, 1985 OFR 5537)
1820-1875 some 300,000 tons shipped from 3 pits 1908 some d.d. 1910 13 d.d.

1901-1914 99 700 tons of ore, iron content varying from 49% to 61%; 1901: shipments totalled 3 000 tons of ore for the year; 1
1913 - 9,649 tons shipped
1913-1914 - 5000 tons

marble quarried for aggregate (Hewitt 1964)

1963 - several mill blocks (12 cubic yards) were shipped from this quarry for dimension stone
1928 - 2,400 tons shipped. Stone was used in preparation of stucco dash, and only the paper-white dolomite was shipped
test shipments only
1908 - 1930's operated intermittenly. From this zone a very handsome marble known as Laurention No 10 was obtained. No st
Laurentian buff marble is obtained from this quarry. No statistics as to amounts are available. Bancroft marbles are to be seen i
1907-1930's - 6'x5'x5' blocks sawn into slabs about 1 inch thick at plant then shipped to Toronto where it was cut and polished.
Operated in early 1900's. The marble is cut into blocks by means of drills mounted on quarry bars and lifted from the quarry by
a tremolitic limestone has been shipped
Calcium marble has been used for terrazzo chips from this quarry; a bulk sample of 22 tonnes from No. 1 zone was tested

1890 - produced stone for monumental purposes, examples of which may be seen in the Gelert cemetary (Adams & Barlow 19

1985 - 8000-9000 tonnes per year; 1983 - produced poultry grit, roofing chips, chips for exposed facing concrete, white sand fo
1914-1943 - 175,000 tons quarried used for terrazzo chips, poultry grit, stucco dash and material for use on ornamental walks

1900 - building stone & monumental stone quarry; 1901-1907 - marble mill; 1942 - quarried marble to produce magnesium to p

1926 - 60 tons concentrates (55% zinc, 6% lead, & a little silver(were produced from a mill
before 1910 - approx. 1,000 tons produced
1881-1882 - 1500 tons shipped

1883-1901 - approx. 10,000 tons shipped

1881- first shaft sunk; 1883 - abandoned; 1886 - commenced - 1887 - discontinued; 1894 - 700-800 tons shipped from stock pil

Nihil Mine operated during the late 19th century. Production figures were not available but could not have exceeded a few tens

no difficulty was experienced in obtaining building stone blocks 4 feet square, and that an immense amount of material is availa
1922 - quarries were operated for the making of lime, and formerly for building stone and monumental purposes
1923-1950's - marble was quarried and kilned for high calcium rock, lime, and crushed lime
quarry was operated to produce lump marble for sulphite paper mill use; it worked until after 1964 (Hewitt 1964)
The product was used locally for building and has also been employed for lime-making (Parks 1912)
1890-1923 - the Roman Catholic Church was built with marble from this quarry; stone was shipped to Ottawa for manufacture (
approx 1920's - the stone was shipped to Toronto for terrazzo (Goudge 1938)
1960's - production of marble chips and stucco plaster filler. The marble was shipped to Quebec for crushing and screening, Oi

worked at one time for road metal

1901-1907 - yielded some of the finest white marble in Ontario. The stone was processed by an on-site marble mill. Shipments
No work has been done on the property
a mill block was removed for testing in 1962
a test block taken

1901 - ?

1959 - 318 kg (700 lb) bulk sample was sent to the Mines Branch for testing; 1960's - ore was extracted from open pit
1906-1908 - 18 tons apatite; 1924 - 481 lbs mica

1918-1919 - 125 tons shipped

1869 - 150 tons
1873 to before 1895 - 50 000 tons; 1889 - some apatite mining
1896 - 7 tons (thumb-trimmed); 1908-1909 - 4 tons produced; 1910 - few barrels trimmed mica; 1940-1945 - 1,793,708 lbs prod

1952 - 270 tonne bulk sample was shipped to the Black Donald Graphite Mine for milling (OFR 5729); 1988 - 180 tonnes of gra
1882-1884 - 3 to 4 thousand tons

1905 - 4 barrels mica produced
1940-1941 - more than 1 ton produced

pre 1890 - 100 barrels shipped to the United States

many years ago - 100 barrels shipped

some mica produced ?

early 1900's - mica operations active; 1910 - some mica produced
early 1900's - some mica produced ?

1895 - first work done, 1906 - 27 tons mica produced

1892-1910 - operated intermittently by various parties

1866-1871 - 11,100 tons shipped; 1918 - 80 tons shipped

1899-1900 - 3 carloads of ore shipped
1962-63 a few blocks were quarried for sampling and testing

1962 quarry opened

1902-1903 - 200 tons crude ore mined and shipped

produced aggregate

early 1900's - worked for building stone. The church at Actinolite was built of coarsely crystalline calcitic marble over 100 years

1880's - discovered; 1896 - opened; 1899-1913 - 40 000 tons mined; 1912-1966 - mining operations up to the end of 1965 tota

worked briefly

1 ton barite shipped to U.S.A.

a few tons of celestite ore extracted in 1907
quarried for the production of marble terrazzo chips (chocolate brown, microcrystalline, lower Black River limestone of Ordovici
Mine was producing 3 car loads per week until the Hamilton Blast Furnace was closed.
80 years ago
There is no record of production, but Miller and Knight speculated that shipments from this and five other small occurrences in t

1961-1965 quarrying, 1965-1971 quarrying (black calcitic marble)
1960's quarried black calcitic marble for the production of terrazzo chips; 1986 actively producing (Verschuren 1986 OFR 5585
first opened in 1880; over 40,000 tons are known to have been extracted and shipped to Bethlehem Iron and Steel Works, Pen
shipments in 1898 were 30 tons per day
Said to have yielded $53 gold per ton. Author found no trace. (Vennor 1870)
1901-1907 mined red hematite ore and after 1903 mined chalcopyrite ore averaging 4 to 10% copper.; 1906 - 234,000 lbs of 40
1911-1920 operated for up to 50 tons a day - produced a small amount of ground talc, idle since 1920; coarse, granular grade f
1963-1981 - small quarry was opened in fine-grained yellow dolomitic marble for the production of terrazzo chips
1961 to ? - quarrying by Stoklosar Marble Co. Marble was sent to the Stoklosar mill, 1 mile north of Madoc on Hwy 62, for the p
1898-1899 - mine was worked (no record of tons shipped)
1901- 250 tons hematite ore shipped to the blast furnaces at Radnor Forges, Quebec
before 1923
Inactive since 1964.

Pale buff & white fine-grained dolomitic marble was quarried pre 1938 and 1961 to 1978-(Present?) for production of terrazzo c
1965 - 1972 2043.7 tons quarried buff coloured marble to produce terrazzo chips for domestic and exported use
1961 - 1985? for terrazzo chips
1958-1978 quarrying by Stoklosar of pink and white marble to their mill for the production of terrazzo chips
1898 - 11 carloads of bog iron (or limonite) shipped to the Hamilton Iron & Steel Co. During its 6 years of operation monthly shi
1879-1880 - shipped 3,000 tons ore
1962-1971? produced terrazzo chips
1963-1971 produced terrazzo chips (aggregate)
1958-1962 - Quarrying by Stoklosar
1961-1962 - Quarrying by Madoc Marble Quarries; post 1971 - history uncertain. The marble was quarried for the production of

1955-1967 - 6,053,145 tons shipped; 1978 - terminated
1965-1974 - produced a small quantity of fine-grained serpentinized marble for terrazzo chips, from several small pits. (OFR 55

1930's-1970's - produced coarse marble blocks, chips, grit, and dust from 6 small quarries

1905-1947 - produced large quantities of high grade apatite and to a lesser extent mica (OFR 5715); 1911-1914 - produced 2,9

1869 - 2 tons mica produced

1870 - opened; 1902 - mining began; 1919 - mining ceased; No more than 18,200 tonnes (20,000 tons) graphite ore mined (Be

1902-1904,1906,1909 - a total of 3,442 tons of ore was shipped; 1973-1974 - 94,631 tons zinc ore produced
1915 - 238 lbs of ore sent to Mines Branch Ottawa (0.4%)

a quantity of magnetite recovered for test purposes and shipped

1962-1963 - quarried some blocks

ducts will be used as additives for asphalt road construction.

before 1895 - 7000 tons; 1900-1901 - 6062 tons; 1918-1919 - 415 tons; According to OGS AR 65(7):42 a total of 30,000 to 40,

quarry operated 30 years ago by Mr. W.D. Cameron and a few years ago by Carleton Lime Products (Sabina 1970)

1939-1942 - operated sporatically - ? talc was shipped

a few tons of pure material was extracted for pigment purposes

before 1870 - about 140 tons stockpiled

1900 - 3,000 tons; 1901-1902 - 2,186 tons; 1961 - 1,500 tons stockpiled

1988-present - quarrying of dimension stone blocks in the 6 to 11 tonne range. Quarry waste will be marketed as landscaping

1974-1975 - 2000 tons of sized calcium carbonate powders were produced
36,000 tons of marble have been removed as impure calcite.
10,000 tons of low quality calcite (as of 1975)

a course-grained pink calcite has been shipped from a quarry south of the McMillan (Osborne 1931 AR 39(6):56)

1945-1946 a small tonnage of tremolite asbestos was produced and shipped to the Johns-Manville mill in Asbestos, Quebec

1907 - discovered (a few carloads of pyrite shipped)

is intermittently operated by Stoklosar for the production of terrazo chips

used for local road metal or building stone

A small quarry was once opened here with the intention of producing marble

20 years ago - a small quantity was quarried

quarried for road metal

1883 - 1 ton crystals extracted; Some time ago, when this mine was fresh opened, a few pounds of its extraction was sent to E

quarried for use as terrazzo

1989-present - trucking dolomite to their crushing and grinding plant at Northbrook. This rock is used to produce aggregate and

A block of limestone was obtained and sent to the Forsyth granite works in Montreal, where it was sawn and polished. The sto

UNKNOWN

no shipments made

By the road, decomposed marble was screened and used for road surfacing

In the early days of Parry Sound, marble was used for burning lime (Hewitt 1967)
it is reported that lime was burnt about sixty years at old pit (Satterly 1943)

Some has been polished that came from this location and has been used for monumental purposes (Royal Commission 1890)

1960 - probably sampled for terrasso chips (OFR 5715)

28,800 tons of stone have been quarried; 1960's - was tested as a potential high purity calcite deposit

1 ton (reportedly around 1900)
1 ton (reportedly around 1900)

several quarry blocks (1 x 2 m) were removed and were dumped near the test pits

the quarry was worked to provide road metal

a coarse-grained limestone has been shipped from here

burns to produce a granular hardsetting mortar (Willimott 1885); the kiln has a capacity of about 300 bushels, which is produce

1908-1909 - worked

30 kegs of galena were shipped (Adams 1894); 1911 - 26 tons of ore shipped (NMI)

before 1880 - considerable quantity mined; no production figures available

RESERVES

1946 - ore reserves 17,500 tons (NMI Card)

200,000 tons concentrating ore (1906); 1 million tonnes grading 31.47 percent magnetic iron have been estimated (MRC 11:28
calculated in 1914 - Lake Pit - 1.8 million tons of 51.80% Fe, % S, .018% P - Derick Pit -0.5

No.4 Deposit contains estimated reserves of 2,480,819 tons (2.5 million) averaging 28.62% recoverable iron

tistics are available on production. However marble from this quarry is to be seen in a number of buildings throughout Canada,
a number of buildings throughout Canada. See also Stewart Quarry - Dungannon, Recno 130.
Large quarry blocks appear to be obtainable from this property. Inconsistency of colour-texture and the presence of mafic band
12 ton, stiff-leg derrick operated by Steam. Bancroft marbles are to be seen in a number of buildings throughout Canada. See

No. 1 zone - 1,275,000 tons averaging 93.25% $CaCO_3$ to a depth of 200' (Northern Miner Jan 29/76) ; 1.9 mi

0); Output very limited (Parks 1912); 3,250 tons (MNR Pit Description 1977)

golfing sand-traps, white sand for white cement blocks; 1942 - about 20 tons per day were trucked to crushing plant in Haliburt
60,000 tons

1990 - all production is currently from Quarry No. 2

1926 - 16,000 tons averaging 10.5%

s; 1894-1901 - some mining done; 1901 - mine abandoned; Total amount of ore shipped is 9,000 tons (however, this amount i

f tonnes. (MacKinnon 1990)

le (Parks 1912); formerly worked for building stone and from which stone for many buildings in Renfrew was obtained (Goudg

C 1890)

Smith Quarry (Hewitt 1964); 1985-present - produce white dolomite from a small quarry about 50 m NW of the Old Smith Quar

were made across Ontario (Parks 1912)

probable 295,000 tonnes grading slightly above 6% graphite to a depth of 20 m in two zones (Elliott 1989)

uced

1.5 million tonnes grading 9.5% graphite in two separate zones (Kilborn Limited Feasibility study 1989)

High-purity dolomite with low brightness (1990 OFR 5712)

3 million tonnes of white, high CaO marble containing less than 2% acid insolubles. Contains an average of 3% impurities. (199

The dolomitic band lying between the old railway bed and the Moira River was estimated to contain about 4 million tonnes of hi

production = 722,145 from Henderson & Conley Mines; 1937 - taken over by Canada Talc

Reserves

n age)

e area probably totalled less than 100,000 tons. Possibly shippped less than 10,000 tons prior to 1890 from this property.(NMI
possible source for road metal

sylvania at intervals between that year and 1900. (GSC 1906 Separate Report 909). 1900-1906 it was supplying flux to the Sta

-60% copper matte containing 109,000 lbs of copper producued and shipped to New Jersey (GSC 1951 DEMR/CANMET 113:4
talc content 20%, dolomite content 45-90%, quartz 0.5-7%. Grey talc content under 30% (Spence 1940); width of talc bearing s

oduction of terrazzo chips

ips

yes

terrazzo chips.

7 & OFR 5715)

0 tons feldspar (OFR 5715)

45,400 tonnes (50,000 tons) of approx. 7% graphite remain in the deposit below the mined-out portion (Bowdidge 1984)

00 tons of ore was shipped

40 to 50 m wide zone of white, coarse-grained dolomitic marble containing less than 3% impurities

C Zone has potential tonnage of 1,500,000 tons of contained concentrate to 750' vertically (Evans, 1973 Assessment File 63.3

gland, as a sample, but the demand being so very limited was abandoned (Willimott 1885 p.8L)

High-purity dolomite less than 3% impurities

High-purity dolomite with low brightness (1990 OFR 5712)
High-purity dolomite with high brightness, contains less than 5% impurities (1990 OFR 5712)
dolomite zone containing less than 3% tremolite and trace amounts of pyrite and graphite. The zone is poorly exposed but has
Outcrop exposure is poor, but samples show high-purity dolomite, potential width of about 60 m (1990 OFR 5712)
high-purity dolomitic marble (1990 OFR 5712); Samples contained less than 2.5% silicate impurites (1986 OFR 5601)

50,000 tons less 20% waste factor (ore is restricted to a wedge shaped block measuring 225' x 320' x 400' on its 3 sides and ta

Diamond drill results were generally poor and indicated that mineralization did not persist to depth in any significant width about six times a year (Willimott 1885)

NOTES

UTMs on centre of lot. (EXACT LOCATION UNKNOWN)
1917-1944? - Chief Canadian Producer - The richest and largest body of flake graphite in the United States or Canada.; Prese
Road cuts along south side of Matawatchan Road. Examination of the area on either side of the road shows interlayered rusty
small fake graphite occurrence (OFR 1990)

UTMs on centre of lot. (EXACT LOCATION UNKNOWN)
UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

* exceptional specimens of this mineral have been obtained from this property

UTM's can not be obtained since there are no topo. maps available at this time

Just east of the County Road on the boundary line between lots 15 & 16, north of the creek on Lot 16 Con 13 (Satterly 1943); F
A 153m wide belt of marble extends along strike for about 0.8 km and contains large areas of clean high calcium marble. (Tho
4 graphite prospects in this lot

800' E of Pusey Lake
south of Lower Cardiff Lake between the road and the railway; UTMs on centre of lot due to insufficient plotting data.

UTM's on centre of lot due due insufficient plotting data

UTM's plotted from written information

* exceptional specimens of this mineral have been obtained from this property
1/4 east of the Killaloe-Brudenell Road
Mineral Collecting
historical value - one of Ontario's oldest mines; skarn at contact of gabbro; 2 ore-bodies; drill core stored at Tweed
the deposit of magnetite lies immediately beneath the Paleozoic conglomerate at a depth of about 133'
Abandoned mine with historial or tourism value; The Bessemer iron deposit consists of four separate deposits that occupy sev

UTM's are based on Lebaron & MacKinnon's Sample No. 3. I am not exactly sure where the quarry is (in the sand & gravel pit

Black marble is veined with white

unsuitable for exterior use, and it is too brittle for sawing (Osborne 1931)
See also Barker South Quarry, Recno 129 which is 600' south of this quarry.; There are at least 3 quarries in this general vicini
See also Recno 128 for the Barker North Quarry. The south quarry is about 200 yards (600' south) from the North Quarry.; The
Stone was used extensively in government buildings in Ottawa, Toronto, and Hamilton. (New Standard Bank Building, King St.
Hugh-purity dolomite zone limited to quarry area 20 x 40 m (OFR 5712)

The rocks are well exposed in a open field is estimated to be more than 1,000 feet wide; This deposit of high calcium marble is

on the old highway between Irondale and Gooderham, just west of the previous railway point of Maxwells. It is just south of Hig
2 1/2 miles west of Gooderham along the White Lake Road there are large exposures of very coarse-grained limestone. (Goud
The occurrence is approx. 2 km (1 1/4 miles) south of Gooderham on Highway 507.
quarry opens into the west side of a marble ridge. Crystalline limestone containing the same mineral assemblage is exposed b
Located at the eastern end of Haliburton Village, in Block W, on the north shore of Drag River; Another smaller quarry, 250 yar

Gould Quarry (Lot 20 W) is actually a little over a mile to the southwest of the main quarry
UTM's on centre of lot due to insufficient plotting data

Grenville dolomite, very fine texture, takes a high polish

all pits are partially debris and water-filled

also a combination of Bluff Point and Campbell Mines)

Roadcut on County Road 11, along the Marmora-Madoc Township boundary (extends into Madoc Township Lot 19, Con 1 See
Roadcut on County Road 11, along the Marmora-Madoc Township boundary, extends into Marmora Township (See Recno 20
The mineralized zone is 75 m long x 10 m wide near the east bank of the Moira River

Located on County Road 11, 2.75 km from the Deloro General Store; Near the south end of the property there are 2 small pits
See also the marble pits/quarries (Horton Quarry Lot 6, Con 8); Possible uses: ashlar, structural stone, landscaping stone, arc
on County Road 11
Point located for UTM's is the road-cut; Sabina reports in 1971 that the quarries, now overgrown, are on the south side of the ri

UTM's are for the general location in the lot. The exact location is unknown
a bore-hole in Renfrew shows the thickness of the limestone to be 700' including 10' of black mica schist at a depth of 230' (Pa
Pits are 1.2 miles from Haley Station on the CPR.
ry and, in 1989, began producing crushed marble for landscaping stone from a quarry in serpentinized dolomitic marble about 5

UTM's found based on a written description only

The stone makes superb structural material (Parks 1912)
Parks 1912 mentions that this Quarry contains marble similar to that obtained from the McGinn Quarry.; exact location of occur
UTMs on centre of lot (EXACT LOCATION UNKNOWN)

LAT-LONG APPROXIMATE
*CON 10-14, LOTS 1-5 LAT-LONG APPROXIMATE
LOT-CON ANNULLED

MDMR 86-BAR-06; Marble Prospect ?
OTHER ASSES FILES: 40,41,48,49,51,52
ALSO MDMR 86-BAR-14

PROPERTY COVERS OTHER CON/LOT;MDMR 86-BAR-10
UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

The showing is located approx. 0.8 km NE of the farm house (OFR 5729)

EASTING NORTHING APPROXIMATE

MORE REFS IN PAPER FILES

small pot kiln on 4/3 to supply lime - stone obtained nearby
NO REF. AVAILABLE HOSTROCK IS COPIED FROM M 2054
REF. NOT AVAILABLE SHOWING ON M 2054

UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

total property consists of 59 mining claims
AIRBORNE MAGNETOMETER SURVEY WAS ALSO DONE

Graphite zone exposed near the northwest shore of Birch Lake; No further work is planned on this occurrence by Stewart Lake

NEW GROWTH EXPLORATION CONC 6-7 LOT 17-18 1975

ALSO VLF

The occurrence of graphite falls within the 49 claim group (Houston Management Corp Ltd - Burridge Marble Belt Property) - O

This represents the location of sample CLA-01 (1990 OFR 5712) see also Clarendon 12 37, for sample CLA-01a

In Lot 22, Con 9 minor exposure of high-purity dolomite in a belt of predominantly calcitic marble within a cottage area; low dev
THE MARBLE IS BRECCIATED WHICH HOST THE DEPOSIT

UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

BUILDING STONE FILE NO EL01.0
This dolomitie zone is also exposed in a rock cut on Highway #7 about 100 m east of the quarry road see sample 89 ELZ-01a (

Stone USED FOR PARLIAMENT BUILDING
ON PATENDED LAND
UTM's are for the general location of this occurrence. The exact location is unknown

LAL-LONG APPROXIMATE
IF LAT-LONG ARE CORRECT, THEN LOT 18 IS NOT CORRECT; UTM's are for general location of occurrence. The exact lo
NOT OF ECONOMIC INTEREST; UTM's are for the general location in the west half of the lot. The exact location is unknown
NOT OF COMMERCIAL IMPORTANCE

MAP P2611 NOS. 0737, 0738
The quarry is located .08 km south of the Hawkin's Bay Road (Elzevier-Hungerford Township boundary) along a gravel and dirt
MARBLE BANDED OR COLOURED BY HIGHLY DECIMINATED HEMATITE

UTM's on centre of lot due to insufficient data. Exact location unknown
APPROXIMATE NORTHING EASTING

assay varied from 0.23 oz Au/ton across 5.5 feet to 1.57 oz. Au/ton across 9 feet
APPROXIMATE LOCATION OF DEPOSIT

LOCATION APPROXIMATE
LOCATION APPROXIMATE

OCCURRENCE

APPROXIMATE LOCATION

BUILDING STONE FILE NO LN01,02,04
Banded calcitic and dolomitic marble; no significant widths of dolomite (sample 1580, Lot 25, Con 2 - OFR 5712 1990)

SEE BULD STONE FILE FOR FUTHUR REFS. & PAPER FILES

DRILLED 1978 BY SELCO

1975 GEOCHEM BY LYNX CANADA

GRAB SAMPLE ANALYZED AT: 75.90 STRONTIUM
possible uses: terrazzo chips, crushed stone, ornamental stone, flagstone, ashlar; Platy aggregates of white barite are associat
Ore assayed 63.80% Fe, 2.30% Mn
continuation of the Dufferin 1/18; the openings constituted the Hobson, Nelson and Knob Mines
1892 - discovery of smaltite, erythrite

Minerals of Canada Catalogue 1876 -about 8 tons were extracted

iron minerals occur at the contact
hist is 100' in underground workings
I have matched up Hewitt's (1968) description of yellow dolomitic marble with Tweed's Property Visit Report (1981) of yellow d

There are some discrepencies with the references. Hewitt 1968 GR 73 has made reference to two deposits on the Walsh Farm

green and white calcitic marble. Presence of pyrite renders stone unsuitable for building. Sphalerite of interest to economic geo

minor quartz and feldspar impurities; I believe this quarry is listed twice in Madoc GDIF 90 se T7 and Bd (K.F. March /90)
Quarry is 300' south of the road. Possible uses: ornamental stone
Sparse quartz present.
mine closed in 1907 - unsafe mining conditions
42 men employed in 1879-1880
See also 9/2 (rec no 1465) for the quarry on the east side of road

2 Quarries on Rimmington Road. Deep red bands and streaks in marble are due to finely disseminated hematite. The marble w

Almost completely obscured by garbage; Hans and I matched up Tweed's access description to location plotted on OBM Serie
MAGNETITE BEARING ZONE NEAR GABBRO-DIORITE, MDMR 86-MAR-23

ROCKTYPE SCARN/CLASS METASOMATIC/BUILDING STONE MA03.0

these pits are just adjacent to a wollastonite zone (See Platinova-Cominco Property Lots 5-8, Con 8); Possible Uses: ashlar, st

BUILDING STONE FILE MA05.0

STONE FOR PULP & PAPER IND BLDG STONE #MA08.0; The Bonter property also covers a past producing gold mine (See
BUILDING STONE FILE MA07.0; on the McCann Farm near Malone Village
ALSO MADOC ASSESSMENT FILE 45
MAY STILL BE PRODUCING, (Used as aggregate??)
APPROXIMATE LOCATION
The Silver Queen Mine property contains 2 mines (apatite-mica, and feldspar)

ALSO OWNED BY SISCOE GOLD MINES & CANALEX RESOURCES LTD
MORE REF IN FILE ALSO ROCHESTER PITS COAL CO. NORDEN VERMI

APPROXIMATE LOCATION
MORE REFS IN PAPER FILE; ALSO SELF POTENTIAL AND VLF SURVEYS; Historical Value - The earliest recorded produci

EASTING NORTHING APPROXIMATE BUILDING STONE FILE NS01.0
NORTHING EASTING APPROXIMATE

NORTHING EASTING APPROXIMATE
NORTHING EASTING APPROXIMATE
NORTHING EASTING APPROXIMATE
BUILDING STONE FILES OL03.0, OL04.0
NORTHING EASTING APPROXIMATE
Located along the Bobcock Road ; 2 small occurrences (0.25 m) of massive sphalerite mineralization were found on property
NORTHING EASTING APPROXIMATE
NORTHING EASTING APPROXIMATE
NORTHING EASTING APPROXIMATE
NORTHING EASTING APPROXIMATE
600'NW of this showing, some crystals of molybdenite were identified in marble.; VLF Survey
Included is Tweedmin's #220034.1 which listed a deposit on Conlot 5/2 and 6/2 with Assessment Files 1, 2 and Map 2449 as r
pegmatitc zone between limestone and granite; molybdenite occurs both in the limestone and in the adjacent granite
NORTHING EASTING APPROXIMATE
molybdenite disseminated in massive limestone; molybdenite crystals 1 in diameter"

NORTHING EASTING APPROXIMATE
NORTHING/EASTING APPROXIMATE

APPROXIMATE NORTHING EASTING; exact location of occurrence is unknown

APPROXIMATE NORTHING EASTING

APPROXIMATE NORTHING EASTING

APPROX NORTHING EASTING
APPROXIMATE NORTHING EASTING
This occurrence is listed under gold. However, after reading the description, Harding (1947), does not mention gold being pres
APPROXIMATE NORTHING EASTING

APPROXIMATE NORTHING EASTING

ALSO ASSESS FILES 21,22,25,26,31,36,40

ALSO LOTS 5,4, CONC 10,9
OCCURRENCE ALSO LOTS 7,4,5 CONC 10,9,13
AGGREACATE PROP BUILDING STONE FILE PT01.0
BUILDING STONE FILE PT02.0

Should be Con 4 not Con 6
BLDG STONE #RW01.0 TYPE:GREEN & WHITE MARBLE
Also in on S.E. shore of Mosque Lake in the Corner of Miller Township

on the north shore of Christie's Lake magnetite is exposed in rock cust along the CPR line.; ACTUAL SITE LOCATION NOT ID
EASTING AND NORTHING COORDINATES REFER TO TOWN OF BOLINGBROKE

PB CU MINOR OCCURRENCES

MDMR 86-TUD-11
BUILDING STONE FILE NO TU05.0

MDMR 86-TUD-22,SEE PAPER FILES FOR MORE REFS

MDMR 86-TUD-28
RESIDENT GEOLOGIST FILE

on an abandoned railroad line
no bedrock exposed
just east of CPR track. Ashdad-Renprior Area Marble Belt takes in Lots 29-30, Con 7-9. And also continues into Admaston To
The northern part of this belt also extends into Blithfield Township Lots 22-23, Con 1.

UTM's on centre of lot due to insufficient plotting data
UTM's on centre of lot due to insufficient plotting data

UTM's based on data from OGS MAP 2514 (Ardoch area)
UTM's based on data from OGS MAP 2514 (Ardoch area)

six vertical drill holes, totalling 546', were put down near a creek on claim EO 323933. Random core sampling indicated grade
in 1978 John McVittie performed a programme of trenching in the area and in September 1979 an airborne magnetometer and

marble is an off-white, coarse grained rock, relatively free of disseminated minerals, but contains variable amounts of amphibliti

these references specifically pertain to con 5 lot 2, however, the information about this occurrence seems to be identical to that
This material has potential uses in aggregate and chemical industries.
The reference of Map P2488 has been included, but am not sure whether the pit shown is really the same occurrence that Satt
There is no information re: exact location ; UTMs are on centre of lot due to insufficient plotting data.
Parks 1912 #100 refers to Lot 27, Con 10 along with the other Ontario Marble Quarries of the Stewart, McMillan, and Barker. H
100 yards east of the Trumble house.
270' SW of the calcite vein, a narrow quartz vein which cuts across fine-grained marble and a narrow sill of altered gabbro, con

UTMs on centre of lot due to insufficient plotting data.

UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

White quartz pods and veins of various sizes occur. Drive 1.6 mi north of Eldorado P.O. on Hwy 62. Turn right at Barker Road
Drive 1.35 miles north of the Eldorado P.O. on Hwy 62 to the farm on the right (east). Get permission. Walk east along walkwa

possible uses: architectural stone, ornamental stone; This site displays a very unique marble breccia. Variety of colours combin
According to access directions from Tweed's report the location ends up in 5/21 not 5/22 as written. Hans and I used a 1:5 000
Hans and I matched up Tweed's access description to location plotted on OBM Series map in file.

the marble on this property forms a belt about 30' wide
Drill Core Stored in Bancroft Library MNDM; The deposit consists of 4 zones: A Zone (750'l x 140'w); B Zone (750'l x 80'w); C

course grained (half inch) crystalline limestone

Copper is referred to in SMDR 39 using the Northern Miner article as a reference, I am not sure if it really refers to this copper

2 marble types: beautiful, fine grained, grey clouded marble; medium grained, blue and banded, susceptible of a good polish.

UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

about 3 miles west of Highway 62,north of a small lake,UTMs approx.
* exceptional specimens of this mineral have been obtained from this property

North Shore of Stony Lake near the mouth of Eels Creek (Sabina 1965)

This is a fine body of nearly pure marble exposed on the shores of the western half of Deer Lake... the exposures are very exte

The total length of section examined was 169.2m. (Storey & Vos 1981)

1 1/2 miles east of Hadley along the road to Wilberforce is a band of marble. It is uncertain whether this occurrence lies in Mon

Parks (1912) lists this property in Concession 8 - But notes in my files say it should be concession 9 ?? (Karen Fell 1990). UT

Roadcut on the west side of the Highway; Sample PM91 & PM92 taken from eastern side of Highway; This marble belt also ext
UTMs on centre of lot. (EXACT LOCATION UNKNOWN)

Easton's field crew were not able to locate any of the pits. This occurrence warrants further investigation (Easton 1987)

On top of the hill behind the Quarry on Lot 21, Con 1; UTM's are on the centre of the lot due to insufficient plotting data
quarries are on a small point on the east side of the mouth of the Madawaska River, half a mile north of HWY 17 (Satterly 1945
UTMs on centre of lot due to insufficient plotting data.
on County Road 48 - west side of road
On a point on the east side of Mill Lake
UTM's in the centre of lot due to insufficient plotting data

the band of white crystalline limestone southeast of Mount Jamieson is very pure (OGS 62(5))
Roadcut on the north side of Road showing white fresh surface and dark grey weathered surface typical of Grenville high-purity
High-purity dolomite
This location is based on the sample information CLA-01a (1990 OFR 5712); See also sample CLA-01 Clarendon 4/38
Quarry site is located on the NW side of a 400 m wide, northeasterly-trending marble ridge known as Graham Mountain; Lot/co
potential width of about 90 m between outcrops of calcitic marble

Reddish-purple wilsonite is associated with actinolite-scapolite rock which occurs as boulders and pebbles in a creek which joi

This marble belt extends into Grattan Township Lots 35-36, Con 6-7

Original survey of this portion of Burleigh Township was annulled on June 4, 1956. Subsequently, the claims were patented/res
Claims within Peterborough Crown Game Preserve; UTMs on centre of lot. (EXACT LOCATION UNKNOWN)
UTM's are not on exact location due to insufficient data regarding location; the quarry was open many years ago in the side of
site is located a short distance south of where the Coehill branch of the C.N. railway crosses the Hastings road ; UTM's on cent
The marble belt continues into Bagot Township, Lots 29 & 30, Con 7-9.
This marble belt continues into Brougham Township Lots 1-10, Opeongo Road, Range D
This marble belt continues from Admaston Township Lots 11-13, Con 13-14
Adams and Barlow mention a large body of fairly pure marble at this site.
body of limestone very rich in serpentine occurs in the south of Lot 11 (Adams & Barlow)
limestone containing large masses of serpentine on these lots (Adams & Barlow)
This marble belt continues through McNab Township Lots 9-17, Con 1-3 and through Bagot Township Lots 14-15, Con 1.
This marble belt continues through McNab Township Lots 9-17, Con 1-3. See recno 3085 for UTM point located.

UTMs on centre of lot (EXACT LOCATION UNKNOWN)

150m west of the road from Calabogie to Shamrock
This marble belt extends into Bagot Township Lot 24, Con 12; UTMs on centre of lot. (EXACT LOCATION UNKNOWN)
30m thick; UTMs on centre of lot. (EXACT LOCATION UNKNOWN)
The Black Donald Graphite Mine is along strike of the northern part of this area and shows folding and faulting in similar rocks.;
This marble belt extends into Brougham Township Lots 14-21, Con 1-3
This marble belt extends into Matawatchan Township Lots 15,16,17, 18, Con 13,14?
This marble belt extends into Brougham Township Lots 34,35,36, Con 2,3,4?

This marble belt extends into Brougham Township Lots 22-26, Con 19; UTM's on centre of lot due to insufficient data (EXACT
The area is reached by walking the cut township line between Brougham and Blithfield Townships from Highway 508; This dep

marble '8 chains wide
Satterly measured 46 m of marble
east and west of the road bridge; In the gorge below the falls crystalline white to pale-blue or pale-green limestone forms cliffs

On north half of lot marble is found west of the road.
On the east side of the road there is a 40' width of faintly beded crystalline limestone.
In a field east of the road there is a complex of ... with lenses of crystalline limestone
occurs on the east side of the road

west side of Highway 62 (Old Hastings Road) near Quarry Lake

West side of Highway 62
less pyrite than the Ritchie Quarry. UTMs on centre of lot (EXACT LOCATION UNKNOWN)
UTMs on centre of lot (exact location unknown)

About 1 mile east of Rose Point
variegated marble has been obtained

coarse-grained, calcium and high-calcium limestone (Goudge 1938); a great development of nearly pure marble is found to the
This marble belt extends into Sebastopol Township Lots 33-34, Con 1 & 2 (See Sebastopol for UTM location point); UTM's on
The mineralization appears to contain more siliceous impurities than the Platinova-Cominco property.
two pod-like bodies containing wollastonite
Occurrence located on peninsula on Crowe Lake. The close proximity to houses and cottages on the peninsula limits or negate
The precise location is unknown, although it is known that it occurs in the area of the above lots. Access is extremely poor, inv

Proceed west on the Murphy Point Road 1.7 km from the community of Elmgrove.; UTM's on centre of lot due to insufficient plo
Exact location unknown, except that it occurs around outlet post at the south end of Charleston Lake. Outlet is accessed via C
* exceptional specimens of this mineral have been obtained from this property; exposed along a cliff on the east bank of the Yo
skarn at the south end of Dean's Island
Location unknown
About 500 m north of the proposed quarry site, where the forest access road crosses an outcrop area west of Smith Lake, a s
Two outcrop areas

Lies within a park reserve area which is withdrawn from disposition (OFR 5712 1990)
Lies partially within a park reserve area which is withdrawn from disposition

minor exposure of high-purity dolomite
Drill Core Stored at MNDM Drill Core Library Tweed

UTM's on centre of lot due to insufficient plotting data
2 m of high-purity dolomite at the northern end of a 97 m long roadcut (Hwy 17)

UTM's on centre of lot due to insufficient plotting data. Exact location unknown
outcrop is along the base of a bluff at north side of Bonnechere River; UTM's are on the centre of the lot due to insufficient plott
in the days of the first settlers limestone was quarried and burnt for lime in a kiln. Lime from this kiln was used to build the origi
material from the open pit is used for road surfacing
On the north side of the road to Many Island Lake s small pit has been sunk in a rusty, decpmposed, crystalline limestone (Satt

a block of limestone was obtained and sent to the Forsyth granite works in Montreal, where it was sawn and polished. In the o
in the crystalline limestone exposures at km14.2 [on hwy 35 out of Minden] small aggregates of pink platy barite occur in vugs i
at 14.8 km from Minden on HWY 35 this road-cut occurs containing crystalline limestone and granite rocks; UTM's on the gene
at 15.3 km out of Minden crystalline limestone, pyroxenite, and granite rocks are exposed by a road-cut.; UTM's on general hig
at 16.9 km out of Minden crystalline limestone is exposed by a roadcut (Sabina 1986); UTM's on general highway location in th
at 13.5 km out of Minden crystalline limestone is exposed by road-cuts; UTM's on general highway location in the lot. The exa
at 12.7 km out of Minden limestone which is associated with pegmatite containing white to pink peristerite is exposed by a road
at 10.0 km out of Minden on HWY 35 crystalline limestone is revealled by roadcuts (Sabina 1986); UTM's on general highway l
at 7.6-8.1 km out of Minden on HWY 35 roadcuts expose crystalline limestone which contains coarse cleavable pink calcite whi
at 8.1 km out of Minden on HWY 35 crystalline limestone is exposed by a roadcut (Sabina 1986); this roadcut is just south of th
field party personal located a relatively pure dolomite marble on Lot 26. concession 1 of Lutterworth Twp. (Easton 1986)
located on the south shore of Buller Lake, and is a large area of dolomite marble, in part metamorphosed to tremolite-quartz as
sample 1953-2 is a pure white crystalline limestone exposed on the Madawaska River, just east of Slate Falls (OGS 62(5)); an

exposed width of 37m and was burnt for lime in the 1890's (Satterly 1943)

prospectors searching for fluorite sank several small pits on an impure crystalline limestone; they found no fluorite (Satterly 194
a band of impure crystalline limestone 9m wide containing hornblende gneiss inclusions; nearby is another band about 18m wi

grey crystalline limestone containing numerous white stringers parallel to the bedding has been quarried for road metal (Satterl
impure, grey, medium-grained, crystalline dolomite was noted at several points ...One of these points is about 500' southeast o
beginning 2 miles east of Goshen station on the CNR, coarsely crystalline limestone is exposed on the road to Sand Point. Si
a short distance west of Arnprior a quarry produced rough crystalline limestone which shows even-banded grey and white type

UTM's in centre of lot due to insufficient plotting data. Exact location unknown

UTM's are on the centre of the lot due to insufficient plotting data
Deposits of Precambrian limestone are reported to occur near Hybla Village
Marble is exposed for approx. 60 m aong strike, and is estimated to be 10 m thick.
A short distance west of the Gould Quarry on Lot 20 W, Con 5; UTM's on centre of lot due to insufficient plotting data
The stone might constitute a 'handsome marble' (Willimott 1885); UTM's on centre of lot due to insufficient plotting data
Traceable across several lots, affords in many places long translucent rhomboidal colums and interlacing blades of tremolite, t

UTM's on centre of lot due to insufficient plotting data
UTM's on centre of lot due to insufficient plotting data
The marble belt reaches into Lots 28 & 29

This marble belt continues on into North Algona Township see recno 3198
This marble belt continues into Wilberforce Township see recno 3197
Great bodies of marble
3 anomalies: Site A - II/16 N DDH; Site B - II/17 stripping;   Site C - III/18 test pit & DDH
The main showing is on a low ridge trending northwest about 5/8 mile northwest of the Murphy Corners road.; The skarn may a

Sr and Ba in marble; magnetite in quartzarenite

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and sent to the furnace at Three Rivers as a sample lot for smelting. The iron produced was found to be of superior quality."; S
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000 feet southwest of the Walsh farmhouse. The country rock is black basic volcanics. An open cut
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which is usually fairly pure and which in many places contains very little foreighn material
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SAMPLE	COLOUR	GRAIN_SIZE	IMPURITIES	STRUCTURE
1	br	-	q,hem,hb,phlog	lam
2	bf-lg	f	phlog,py?,clot(c-s q)	-
3	bf	m-f	clot(q c-s)	lam
4	lg	f	phlog,hem	mas
5	br	f	clot(q),phlog,trem	mas
6	mg	f	bio,py	-
7	lg	m	py,phlog	-
8	bf-pk	m-f	-	lam
9	g	c	bio	lam
10	lg-w	m-c	phlog	lam,mas
11	bf	f	py,hem	mas
12	mg	f	hem,phlog	-
13	dg	f	serp(along fractures)	mas
14	bf	f	phlog,q	lam
15	g-bf	f	q,py	lam
16	dg	f	bio,q	lam
17	g	f	-	lam
18	g	f	bio	lam
19	g	f	py,hb	lam
20	mg	f	phlog,py	lam
21	mg	f	q	lam
22	mg	f	phlog,py	lam
23	lg	f	hb	lam
24	lg	f	phlog,bio	lam
25	lg	f	bio	lam
26	lg	f	phlog,bio,hb	lam
27	lbf	f	phlog,q,fel	lam
28	lg	f	py	lam
29	lg-bf	f	q	lam
30	lg-w	f	-	lam
31	lg	f	hb	lam
32	dg	f	-	lam
33	lg	f	-	mas
34	lg	f	-	mas
35	lg	f	py	mas,lam
36	lg	f	hem,phlog,q	mas
37	lg	m	py	mas
38	lg	m	phlog,q	mas,lam
39	lg	f	c-s	lam
40	lg	f	-	lam
41	lg	f	-	lam
42	lbf-w	f	py,q	mas
43	lg	f	phlog,bio,q	lam
44	w	f	py	mas
45	lg-w	m	py	lam
46	bf-w	f	q	mas
47(a)	w	f	-	mas
47(b)	g-w	f	act	mas
48	lg-bf	f-m	phlog	lam
49	lg-bf	f-m	phlog	lam
50	g	f	phlog	lam
51	lg	f	phlog,q	lam
52	lg	f	phlog,q	lam
53	mg	m	phlog	lam
54	lg	f	phlog	lam

55	lg	f	phlog	lam
56	mg	f	phlog	lam
57	mg	m	phlog,c-s	lam
58	mg	f	phlog	lam
59	mg	f	phlog	lam
60	mg	f	phlog	lam
61	mg	f-m	phlog	lam
62	mg	f	c-s	mas
63	mg	f	bio	lam
64	lg	m	bio	mas
65	mg	f	bio	mas
66	lg	f	bio	lam
67	lg	f	phlog,q	lam
68	mg	f	phlog	mas
69	lg	f	phlog,bio	lam
70	mg	m	bio,py	mas
71	lg	f	py	mas
72	lg	f-m	py,bio,trem	lam
73	mg	f	bio	mas
74	lg	f	py	lam
75	mg	f	bio	lam
76	mg	m	py,phlog	lam
77	mg	f	phlog	lam
78	mg	f	bio,phlog	mas
79	dg	f	bio	lam
80	mg	f	phlog	lam
81	mg	f-m	phlog	lam
82	mg	f	bio	lam
83	mg	f	phlog	lam
84	mg	f	phlog	lam
85	mg	f	phlog	lam
86	mg	f-m	phlog	lam
87	mg	f	-	mas
88	mg	f	phlog	lam
89	dg-lg	f-m	phlog	lam
90	mg	f	bio	lam
91	mg	m-f	-	lam
92	mg	f	phlog	lam
93	lg	f	phlog	lam
94	lg-dg	m-f	phlog	lam
95	mg	f	phlog,bio	lam
96	lg	f	phlog	lam
97	mg	f	phlog	lam
98	dg-bk	f	py	lam
99	lg	f	phlog	lam
100	dg	f	-	mas
101	lg	f	phlog	lam
102	lg	f	q	lam
103	lg	f	-	lam
104(a)	lg	f	aug,bio,q	lam
104(b)	w	f	py,sp	lam
104(c)	g	-	-	lam
105	lg	f-m	py	lam
106	lg-dg	f	py	lam
107	bk-lg	f-m	phlog,bio	lam
108	lg	f-m	miot	lam

109 lg-bk	m-c	bio	lam
110 g	f	py	-
111 lg	f	-	lam
112 lg	m	py,clot(phlog),q,fel	lam
113 lg	f-m	phlog,bio	lam
114 lg	m	py,bio,c-s	lam
115 lg-w	f-m	phlog,bio	lam
116 lg	f	py	lam
117 lg	f	py	lam
118 lg-w	m	phlog	lam
119 mg	f	phlog	lam
120 w	f-m	-	lam
121 lg	m-f	py	mas
122 lg-w	f	c-s	lam
123 w-g	f	py	lam
124 mg	f	bio	lam
125 lg	f	bio	lam
126 lg	f	phlog,c-s	lam
127 lg	m-f	bio,c-s	lam
128 lg	f	phlog	mas
129 bf-y	f	py	mas
130 lg	f	c-s,phlog	lam
131 mg	f	-	lam
132 mg	f	-	lam
133 w	f	trem	mas
134 w	m-c	phlog	mas
135 w	c	py,phlog,hem,mus	mas
136 w	m	trem	lam
137 y-w	f	py,phlog,q	mas
138 lg	f	bio	lam
139 dg	f	q,c-s	lam
140 lg-w	f	phlog	lam
141 mg	f	hb,phlog	lam
142 mg	f	-	lam
143 mg	f	bio	lam
144 mg	f	-	lam
145 mg	f	-	lam
146 lg	f	c-s	mas
147 lg	f-m	c-s	lam
148 lg	f-m	phlog,c-s,clot	lam
149 mg	f-m	trem,phlog	lam
150 mg	f	hem,bio,phlog	lam
151 lg	f	-	-
152 mg	f	-	lam
153 lg	f	-	lam
154 lg	f-m	q,ph,phlog	lam
155 lg	f	-	lam
156 lg	f	-	mas
157 lg	f	-	lam
158 lg	f	-	lam
159 lg	f	-	lam
160 lg	f-m	phlog	lam
161 lg	m-c	phlog,q	lam
162 lg	f	bio	lam
163 lg	f	py	lam
164 w	m-c	py,hb	lam

165	w	f-m	bio	lam
166	lg	f-m	bio	lam
167	lg-w	m-c	phlog,bio,c-s,py	mas
168	lg-w	f-c	hb,q	lam
169	lg	f	bio	lam
170	lg	f-m	bio,q	lam
171	bf-g	m	bio	lam
172	lg	m-c	sp,c-s,py	lam
173	w	m	phlog,bio	xenolith
174	w	m	phlog	lam
175	lg-w	m	py,phlog	lam
176	lg	f	phlog,bio	lam
177	lg	f	bio	lam
178	lg-w	m	phlog,py	lam
179	lg	m	bio	lam
180	dg	f-m	bio	lam
181	lg	f	bio	lam
182	mg	m	phlog	lam
183	w-lg	m-c	phlog,bio	lam
184	lg-w	m	py,phlog	lam
185	lg	m	py,trem,py	lam
186	lg	m	bio	lam
187	lg	m	bio,py,q	lam
188	lg	f	-	lam
189	y-w	-	hem,phlog	-
190	pk-w	m	phlog	lam
191	lg-w	f	phlog	mas
192	lg	f	c-s,phlog	lam
193	bf-w	f	phlog,q	lam
194	bfw-bfpk	f	py	mas
195	br-w	f	q	lam
196	lg	f	phlog,talc	lam
197	lg	f	py	lam
198	w-lg	f	py	lam
199	lg-dg	f	q	lam
200	lg	f	bio	lam
201	lg	f	bio	lam
202	lg	f	bio,q	lam
203	lg	f-m	phlog	lam
204	bf	f	bio	lam
205	lg	f	bio	lam
206	bf	f	bio,q	lam
207	lg	f	bio	lam
208	lg	f-m	bio,q	lam
209	w	m	bio	lam
210	lg	f-m	bio	lam
211	lg	f	bio	lam
212	lg	f	py,q	lam
213	lg	f	bio,phlog	lam
214	mg	f	bio	lam
215	bf	f	bio	lam
216	w-bf	c	py,q	lam
217	lg	m-f	clot(q)	lam
218	lg	f-m	bio,py	lam
219	lg	f-m	py,q	lam
220	lg	f-m	bio	lam

221	bf-w	f-m	bio	lam
222	lg	f-m	bio,q	lam
223	lg	f-m	bio	lam
224	lg	m	bio	lam
225	lg	m	bio	lam
226	lg	f	-	lam
227	lg	f	bio,q	lam
228	mg	f	bio	lam
229	mg	c	bio	-
230	lg	m	trem	lam
231	lg	f	q,phlog,bio,py	mas
232	lg	m-f	py	lam
233	lg-w	c	py,sp,c-s	lam
234	lg	f-m	bio,c-s	lam
235	lg	f	q	mas
236	lg	f	-	mas
237	lg	f	bio	lam
238	lg	f	bio,q	lam
239	lg	f	bio	lam
240	lg	f	-	lam
241	lg	f	bio,c-s	lam
242	lg	f	-	lam
243	lg-bk	f	bio	lam
244	lg	f-m	-	lam
245	mg	f	py	lam
246	lg-dg	f	-	mas
247	lg-dg	f-m	-	lam
248	lg	f	-	mas
249	lg-w	f-m	phlog	lam
250	dg	f	py	mas
251	lg	f	py	lam
252	lg-mg	f	bio	lam
253	dg	f	py	lam
254	lg	f	phlog,py,clot(q)	lam
255	lg	f-m	phlog,bio,py	lam
256	mg	f	-	lam
257	lg	f	py	lam
258	w-bf	f-m	py,phlog,q	lam
259	w-lg	f-c	py	lam
260	lg	f	py	lam
261	w-g	m	phlog	lam
262	lg	f	py,phlog	lam
263	w	f-c	bio	lam
264	lg	f	bio	lam
265	lg	c	py,bio	lam
266	lg	f	py,hem	lam
267	lg	f	bio	lam
268	lg-w	f	py,phlog	lam
269	lg-dg	f	phlog,c-s	lam
270	lg-w	f	py,phlog	lam
271	mg	f-m	phlog,py	lam
272	lg-w	f-m	phlog,py	lam
273	lg-w	m-f	-	lam
274	lg	f-m	bio,phlog	lam
275	lg-w	f-c	phlog	lam
276	lg	f	bio,py	lam

277	lg-w	f	bio,phlog,hb	lam
278	lg	f	bio	lam
279	lg-bk	f	bio,hb	lam
280	lg	f-m	-	lam
281	lg-w	f	py	lam
282	lg	f	py	lam
283	w	m	trem	lam
284	w	m	trem	lam
285	lg	f	bio,c-s	lam
286	lg	m	q	lam
287	lg	m	phlog	lam
288	g-w	m-f	phlog,c-s	lam
289	lg	f	phlog,q,c-s	lam
290	lg	f	phlog,bio	lam
291	w-bf	m	py,c-s,q,hem	lam
292	w	m	py,c-s,q	lam
293	w-g	m-c	hem	lam
294	lg	f-m	q,phlog,bio	lam
295	lg	f	phlog,q	lam
296	lg-bf	m-c	bio,q	lam
297	w-g	m	py,c-s	lam
298	lg	f-m	-	lam
299	lg-w	m	py,bio	-
300	w	m-c	phlog,c-s,m	lam
301	w-lg	f	phlog,c-s	mas
302	lg	f	q	lam
303	w-bf	f	bio,phlog	lam
304	lg	f-m	py,phlog,bio	mas
305	lg-w	f	q,phlog	lam
306	w	f	q,phlog	mas
307	bf	f	-	mas
308	w	f	hem,c-s	lam
309	lg	f	q	lam
310	lg-dg	f	-	lam
311	lg	f-c	c-s	mas
312	lg-w	f-c	py,trem,phlog	lam
313	lg-dg	f-m	-	lam
314	w-lg	m	-	mas
315	w	f-m	bio,c-s	mas
316	lg	f-m	bio,mus	lam
317	w-lg	f	py,c-s,trem	lam
318	w	f-m	trem,py	mas
319	w	f	trem,py	mas
320	lg-w	f	bio	lam
321	lg	f	bio	lam
322	lg	m	bio,hb	lam
323	lg-dg	m-c	py	lam
324	mg	f	-	lam
325	mg	f	hb	lam
326	lg	f	phlog	lam
327	w-lg	f-m	-	lam
328	mg	f-m	c-s	lam
329	lg	f-m	phlog,q	lam
330	lg	f	phlog	lam
331	lg	f-m	phlog	lam
332	lg-w	f-m	phlog	lam

333 lg-w	f	bio,phlog	lam
334 lg	f-m	-	lam
335 lg-w	f-m	-	lam
336 lg	f-m	phlog	lam
337 lg	f-m	phlog	lam
338 lg	f-m	phlog	lam
339 lg-bf	m-c	-	lam
340 bf	f-m	diop	mas
341 lg	m	phlog	lam
342 lg-w	f-m	phlog,trem,hb,py	lam
343 lg-w	f-m	phlog,hb	lam
344 w	f	py,q,trem	lam
345 lg	f	trem	lam
346 w-lg	f-m	-	mas
347 w-lg	m	gf	mas
348 or-pk	c	chl	mas
349 w-lg	m	hb,trem,bio,fel	lam
350 lg	m	bio,phlog,hb	lam
351 w-lg	m	c-s,bio	lam
352 w	c	trem,q	mas
353 w	f	phlog	mas
354 lg	m	diop,bio,q,fel	mas
355 lg	m	-	lam
356 w	c	act,gf,phlog	mas
357 w	f-m	phlog,trem	lam
358 lg-dg	f	py,trem	lam
359 w-lg	f	trem,py	lam
360 lg	f	py,phlog	lam
361 w	m-c	py,trem	lam
362 w-lg	f	py,bio	lam
363 mg	f	bio,q,phlog	lam
364 w-lg	f-m	py	lam
365 w-lg	f	-	lam
366 w-lg	f	trem	lam
367 lg	m	-	mas
368 w	m	py	lam
369 lg-dg	f-m	py	lam
370 lg-dg	m	phlog,hb	lam
371 lg	m	bio,fel,trem	lam
372 lg	f	c-s,bio	lam
373 lg	f	bio,hb,q	lam
374 lg	f-c	hb,bio	lam
375 lg	m	bio,hb,q	mas
376 w	f-m	act	lam
377 lg	f-m	hb,bio	lam
378 w	m	bio,phlog	lam
379 lg-dg	f-m	bio	lam
380 lg-dg	m-c	-	lam
381 lg-dg	f	bio,trem	lam
382 lg	f	bit,q,act	lam
383 lg	f	bio,phlog,hb	lam
384 dg	f	bio(20%),hb	lam
385 w-lg	f	hb	lam
386 lg	f	bio,hb	lam
387 lg	f	bio,hb	lam
388 lg	f	bio,hb	lam

389	lg	f	bio,c-s	lam
390	lg	f-c	hb	lam
391	lg	f	bio	lam
392	lg	f-m	phlog,bio	lam
393	lg	f	trem(10%)	lam
394	w-dg	f-c	bio,chl	lam
395	lg	f	-	lam
396	lg-w	f-m	py,bio	lam
397	lg	f	bio,hb	lam
398	lg	f	hb(30%)	mas
399	lg	m	bio,hb	mas
400	w-dg	f-m	q	lam
401	lg-dg	m	-	lam
402	w	f	diop,q	lam
403	lg	f	py	mas
404	w	f	phlog,q	lam
405	lg	f	c-s	lam
406	lg	f	act	lam
407	lg	f	bio,hb,phlog	lam
408	lg	f	hb,bio,q	lam
409	lg	f	py	mas
410	w	f	q,phlog,bio	mas
411	w-lg	f	phlog,py,bio	mas
412	lg	f	q,py,bio,phlog	lam
413	lg	f-c	py,hem,q	lam
414	lg	c	py,phlog,bio,trem	lam
415	lg	m	py,bio,phlog	lam
416	w	c	trem	lam
417	w-lg	c	phlog	mas
418	lg-w	m	py	lam
419	w	f	trem	mas
420	w-lg	f	trem	mas
421	w-lg	f-c	bio	lam
422	w	m	trem,py,phlog	lam
423	w	m	py,trem	mas
424	w	f	trem	mas
425	w	f	trem	mas
426	w	f	py	lam
427	w-bl	f	py	mas
428	lg-w	f	bio,trem	lam
429	lg-dg	f-m	phlog,py,trem	lam
430	w	f-m	py	mas
431	w	m	py,trem	lam
432	or	m	c-s,trem	mas
433	lg-w	f-m	py,phlog,c-s	mas
434	lg	f-m	gf	lam
435	w	m-c	gf,trem	mas
436	w	m-c	phlog,trem,c-s	mas
437	w-lg	m-c	trem,c-s	mas
438	lg	m	phlog,py,trem	mas
439	lg	m-c	trem	mas
440	pk	m-c	bio,q	mas
441	w	f	trem,q	mas
442	w-lg	m	trem,bio	mas
443	lg	f-m	bio,phlog	lam
444	w	m	phlog,trem	lam

445	w-lg	m	trem,phlog,c-s	mas
446	lg	f-m	bio,q,phlog	lam
447	lg	f	bio,q	lam
448	lg	m	trem,c-s	lam
449	w	m	trem(10%)	mas
450	lg-w	f-m	py	lam
451	lg-dg	f	trem(50%)	lam
452	w-lg	f-m	trem,phlog	mas
453	lg	f-m	trem,py,c-s	lam
454	w	m	py	mas
455	w	m	c-s	mas
456	w	m	py,c-s	mas
457	w	m	trem,py	mas
458	w	m-c	trem(15%)	mas
459	w	f	trem(15%)	mas
460	w	m	trem	mas
461	lg	f	gf,trem(10%),q	mas
462	lg	m	py,phlog	mas
463	w-lg	f-m	trem	mas
464	lg	f	trem	mas
465	lg	m	gf	lam
466	lg	f-m	c-s,py	lam
467	lg	f-m	py,bio	lam
468	w	f	-	mas
469	lg	f	-	lam
470	lg	f-m	-	lam
471	lg	f-m	phlog,chl	lam
472	dg	m-c	phlog	lam
473	w	c	bio	mas
474	w-lg	m-c	py,phlog,bio	lam
475	lg-dg	f-m	bio,phlog	lam
476	mg	m	bio	lam
477	lg-dg	m	q	lam
478	lg	f-m	c-s	mas
479	lg-dg	f-m	phlog,bio	lam
480	lg-dg	f-m	-	lam
481	lg	f-m	trem	lam
482	w-lg	m	bio	lam
483	lg	m	c-s,trem	mas
484	w-lg	m-c	gf	mas
485	w	m	-	mas
486	lg	f-m	phlog,bio	lam
487	w-lg	f-m	phlog	mas
488	w-lg	f-m	c-s	lam
489	mg	m	q,c-s	lam
490	lg	f-m	phlog,bio	lam
491	lg-w	f-m	py,trem	lam
492	w	f	diop,trem	mas
493	lg	m	diop,phlog	mas
494	m	m	py	mas
495	lg	f-m	gf,py,q	mas
496	w-lg	m-c	bio,q	lam
497	lg	f-m	phlog	lam
498	lg	m-c	-	mas
499	w-lg	m-c	phlog,py	lam
500	w-lg	f-m	py	lam

501	w	f-m	trem(15%)	mas
502	lg	f	-	lam
503	lg	f	py,bio,phlog	lam
504	lg	m	q	lam
505	lg	f	-	lam
506	w-lg	f-m	-	lam
507	lg	m	-	lam
508	lg	f-m	phlog	lam
509	lg	f-m	bio	lam
510	lg	f-m	bio,phlog	lam
511	lg	m	phlog	lam
512	lg	f-m	bio,q	mas
513	w	m	sp,q	lam
514	lg	f	py	mas
515	w	f	phlog,q	mas
516	w	c	-	mas
517	w-lg	f-m	trem,phlog,c-s	lam
518	lg	f	phlog,q,bio	lam
519	lg	f	c-s	mas
520	lg	f	q	lam
521	lg	f-m	q	lam
522	w-lg	f	phlog	lam
523	lg-dg	f	q	lam
524	lg	f	bio	lam
525	lg	f	-	lam
526	w	f	phlog,q	lam
527	w	f	q	mas
528	w	f-c	py,trem	mas
529	w-lg	f	q,bio	lam
530	w-lg	f	-	lam
531	lg	f	-	lam
532	lg	f-c	q	lam
533	lg	f	trem	lam
534	lg	f	trem	mas
535	lg	f-c	-	lam
536	w-mg	f	-	lam
537	lg	f	phlog	lam
538	lg	f-c	-	lam
539	lg	f	trem,phlog	lam
540	lg	f	trem	lam
541	lg	f	py	lam
542	lg-w	f	c-s,trem,q,phlog	lam
543	lg	f	py,phlog	lam
544	lg	f	q	mas
545	w	m-c	trem,q,c-s	mas
546	lg-dg	m	py	lam
547	w	m-c	hem,bio,q	lam
548	w	m	-	lam
549	w	m-c	trem,q	lam
550	lg-w	m	trem,q	lam
551	w	m	py,phlog,trem	lam
552	w	m	phlog,trem	lam
553	w	m	trem,bio	mas
554	w-lg	m	trem	mas
555	w-lg	m-c	bio,act,q	mas
556	lg	m	chl,bio,phlog	mas

557 mg	c	q,c-s	lam
558 w	m	diop,c-s,q	mas
559 w	c	phlog,bio	mas
560 w-lg	m	diop	mas
561 lg-w	m	diop	mas
562 lg	m	c-s	mas
563 w	f-m	gf,phlog	lam
564 w	c	c-s,dip,trem	mas
565 w-lg	m	phlog,trem(10%)	mas
566 lg-dg	f-m	bio,phlog	lam
567 lg	f-m	talc,trem	lam
568 lg	f-c	bio(15%)	lam
569 w-lg	f-c	bio	lam
570 lg-dg	f	bio(10%)	lam
571 lg-dg	f-m	bio(10%)	lam
572 w-lg	f	bio	lam
573 lg	f	trem(10%)	lam
574 lg-dg	f-c	-	lam
575 lg	f	-	lam
576 lg	f	bio,q	lam
577 lg	f	bio(10%),q	lam
578 lg	f-m	bio	lam
579 lg	f	bio	lam
580 lg	f	-	lam
581 w	m	phlog,py,gf	lam
582 lg	m	py,phlog	lam
583 lg	m	c-s,trem(10%),phlog,bio	lam
584 lg	m-c	bio,phlog	lam
585 w-lg	m-c	phlog,trem,c-s	lam
586 w-lg	m-c	c-s,bit,phlog	mas
587 w	f-m	c-s	lam
588 w	m	gf,phlog,bio,c-s	mas
589 w-lg	m	bio,phlog,trem	lam
590 w	f-m	c-s,bio,phlog	mas
591 lg	f-m	phlog	lam
592 mg-w	f-m	phlog,bio	lam
593 w-mg	m	phlog	lam
594 lg-w	f-m	phlog,q	lam
595 lg	f-m	-	lam
596 lg	f	-	lam
597 lg	f-m	bio,c-s	lam
598 pk	m-c	hb,bio	lam
599 w-lg	f-m	phlog	mas
600 pk	f-m	hem	mas
601 w	f	phlog,q,hb	mas
602 w	f-m	trem,c-s	mas
603 w	f-m	trem,py	mas
604 lg	f	trem	mas
605 g	m	py,trem	mas
606 lg	f	-	mas
607 lg	f	phlog	lam
608 lg	f	trem(10%)	lam
609 lg	f-m	trem,bio	lam
610 w	f-m	bio,trem	lam
611 lg-dg	f	py,phlog	lam
612 w-lg	f-m	phlog	lam

613 lg	f-m	bio	lam
614 lg-dg	f	bio	lam
615 dg	f-m	bio,hb,q	lam
616 or	f-m	hb,q	mas
617 lg	f-m	c-s,diop,bio	lam
618 lg	f	q,bio,c-s	lam
619 lg	m	bio	lam
620 lg	f	bio,trem	lam
621 w	f	q	mas
622 w-lg	f-m	bio	lam
623 w	f-m	bio	lam
624 lg	f	-	lam
625 lg	m	bio	mas
626 lg-w	f	bit,gf	lam
627 w-lg	m	bio,q	mas
628 mg	m	bio,hb	lam
629 lg	f	diop,hb	lam
630 w	f	py,phlog,gf	mas
631 w	m	bio,hb	lam
632 w	f-m	phlog,bio	mas
633 lg-dg	f-m	bio	lam
634 lg	f-m	gf,bio	lam
635 lg	f-m	-	lam
636 lg-dg	f	phlog,py	lam
637 lg-w	f	phlog,gf	lam
638 w-lg	f	gf,py	lam
639 lg	m	phlog	lam
640 lg	f-m	phlog,c-s	lam
641 w	f-m	trem,c-s	lam
642 lg	f-m	phlog,py,bio,c-s	lam
643 w-lg	f-m	py	lam
644 lg	f-m	bio,q	mas
645 lg	f-m	bio,phlog	lam
646 lg-w	f-m	bio,hb	lam
647 dg	f	q,hb,bio	lam
648 dg	f-m	phlog	mas
649 lg	f-m	phlog	lam
650 w-lg	f	phlog,bio,fel	lam
651 lg	m	trem,phlog	lam
652 lg	f-m	py,bio	lam
653 lg-w	f	q	lam
654 w	f-m	trem	lam
655 lg	m	bio,q	lam
656 lg	f-m	bio,py,q	lam
657 lg	f-m	py,phlog	lam
658 lg-dg	f-m	phlog,bio	lam
659 lg	m	trem,c-s,q	fol
660 w	f-m	bio(15%)	mas
661 lg-w	f	bio	mas
662 lg-w	m-c	bio,phlog	lam
663 lg-dg	f-m	bit,py	lam
664 lg	f-m	gf,phlog,bio	lam
665 lg	f-m	phlog	lam
666 lg-mg	f	py	lam
667 w	m	bio(10%),phlog	lam
668 lg	f-m	-	lam

669 lg	f	phlog	lam
670 lg	f	-	lam
671 lg-dg	f-m	bio	lam
672 w-lg	f-m	-	lam
673 w	f	bio	lam
674 dg	f	bio,hb,q	lam
675 lg	f	bio,c-s	lam
676 w-lg	f-m	trem	lam
677 w	f	bio,gf,diop	lam
678 w	f-m	phlog	mas
679 lg	f	hb,bio,q	lam
680 lg	f-m	phlog,bio	lam
681 pk	m	bio,c-s	lam
682 w	m	gf,py,c-s	mas
683 w	m	trem,c-s	mas
684 w	m	trem	mas
685 lg	f-m	bio,c-s	mas
686 w-lg	f-m	-	lam
687 w	f	py	mas
688 w-lg	f-m	py,trem	lam
689 w-lg	m	phlog,gf,bio	lam
690 w	m-c	phlog,bio	mas
691 w	m-c	gf,py	mas
692 w	m-c	gf,phlog	mas
693 w	f-m	-	lam
694 w	m-c	phlog	lam
695 w	f-c	trem	lam
696 w-mg	m	gf,c-s,phlog	mas
697 w	c	sp,py	mas
698 w-lg	f-m	py,q,fel,gf	lam
699 w-lg	f-m	phlog,bio,gf	lam
700 w-dg	f-m	py	lam
701 w	m	diop,phlog,bio	lam
702 w	f-m	py,gf,diop	lam
703 w-lg	f	bio,hem	mas
704 w	f-m	phlog,bio,py	mas
705 w	f	py,c-s	mas
706 w	m-c	phlog,bio,hb	mas
707 w	f	diop,hb	mas
708 w	f-m	trem,py	fol
709 w	f	trem	mas
710 lg	f-m	py,phlog(15%)	lam
711 w	m-c	py,trem	mas
712 w	m	py	lam
713 lg	m	phlog,py,c-s	lam
714 lg	m	phlog,py,q,hb	lam
715 w-lg	m	phlog,py,gf	lam
716 w	m	trem	lam
717 w	m	trem,phlog	lam
718 w	m	bio,phlog	lam
719 lg	f-m	trem,diop,bio	lam
720 w	m	phlog	mas
721 lg	f-m	bio,phlog	lam
722 lg	m	phlog	lam
723 mg	f	diop,phlog,q	lam
724 w	m-c	trem(20%),py	mas

725 mg	m	trem	mas
726 lg-dg	m	py,phlog	lam
727 lg	m	phlog	lam
728 lg	m	fel	lam
729 lg-dg	m	mus,py,trem,q	lam
730 w-lg	c	mus,q	lam
731 w	m	mus,trem	lam
732 w	f-c	trem	mas
733 w	m-c	-	mas
734 w	m	hb	mas
735 w-dg	m	-	mas
736 w	f-m	fel,q	mas
737 mg	f	-	lam
738 lg	m	-	mas
739 mg	f-m	fel	lam
740 w	m-c	phlog	mas
741 w-lg	m-c	q,mus	lam
742 lg-dg	m	-	lam
743 w	m-c	-	lam
744 lg	f-m	bio,py	lam
745 w-lg	m	chl,diop	mas
746 lg	m-c	q,py,hb	lam
747 w	m-c	trem	lam
748 w	m	trem(10%)	lam
749 mg	f-m	trem(10%),hem,chl	mas
750 w-lg	m-c	trem	lam
751 lg-dg	c	bio	lam
752 lg-dg	m	py	lam
753 lg	m	py,phlog,mus	lam
754 lg-mg	f-m	trem	lam
755 w-lg	m	trem,phlog	lam
756 mg	m	trem	lam
757 w-lg	m-c	phlog,hem	lam
758 w-mg	m	py	lam
759 w-lg	m-c	py	lam
760 w-mg	m	py	lam
761 lg	m	-	lam
762 dg	m	c-s	lam
763 lg	m	py,phlog	mas
764 lg	f	-	lam
765 mg	m-c	gf,phlog	lam
766 lg	f	py,rem	mas
767 lg	f	trem,py,phlog	lam
768 w	m	hb,phlog	lam
769 w	m-c	phlog,q	lam
770 w	m-c	phlog	lam
771 w	m	c-s,bio	mas
772 w-lg	m-c	gf	lam
773 w-lg	m-c	-	lam
774 w-lg	m	gf	lam
775 w-lg	m	gf	lam
776 lg	m	phlog,c-s	lam
777 lg-mg	m	py	lam
778 lg	m	py,c-s	lam
779 w-lg	m-c	gf,phlog	lam
780 w	f-m	gf,phlog	lam

781	w-lg	m	trem	lam
782	lg-dg	m-c	-	lam
783	w-lg	m	py	lam
784	lg	m	c-s	lam
785	w-lg	f-m	phlog,c-s	lam
786	w-lg	m-c	-	mas
787	w	m	c-s,py	lam
788	or-bf	m-c	-	mas
789	w-dg	m-c	py,bio,q	lam
790	w	m-c	-	lam
791	lg-dg	f-m	-	lam
792	w	m	trem	mas
793	lg-mg	f-m	-	lam
794	lg-dg	f	trem	mas
795	dg	f	-	lam
796	w-lg	f	trem	lam
797	w-dg	f-m	trem	lam
798	w	m	trem	lam
799	dg	m	gf	lam
800	lg	m	aplite	lam
801	w	m	trem,py	lam
802	w	m	trem	mas
803	lg	f-m	trem	mas
804	lg-dg	f-m	-	lam
805	w	f	trem(5%)	mas
806	w-lg	f-m	trem(10%)	mas
807	w-lg	f-m	trem	mas
808	w	m-c	phlog,c-s	lam
809	w-lg	f-m	c-s,py	lam
810	w-lg	f-m	hb	lam
811	w-or	c	trem,phlog	lam
812	w-lg	m-c	trem,phlog	lam
813	mg	m-c	phlog,bio	lam
814	w-lg	m	py,q,bio	mas
815	w-lg	m	phlog,hb	mas
816	w-lg	m-c	py,trem,mus	lam
817	w	m-c	bio,trem(10%),hb	lam
818	w-lg	m	hb,q,bio,phlog	mas
819	dg	c	gf,py,q,hb	mas
820	dg	m	gf,phlog,hb	lam
821	w-mg	m-c	bio,hb,q	lam
822	w	f-m	bio,c-s	mas
823	w-dg	f-c	q,bio	lam
824	dg	m	bio,c-s	lam
825	w	m-c	trem	lam
826	w	m-c	phlog,hb	lam
827	w	m-c	c-s,trem	lam
828	w	m	c-s	mas
829	dg	f-m	phlog	mas
830	w-lg	m	py	lam
831	w	m	q	lam
832	lg-dg	f-m	mus	lam
833	dg	c	bio(70%)	mas
834	pk	f-m	bio,py	mas
835	w	f	py	mas
836	w	m-c	py	mas

837	dg	f	py	lam
838	w	m	py,c-s	lam
839	w	m	py,c-s	mas
840	lg-dg	m	q,bio	lam
841	lg	f-m	py,bio	lam
842	dg	f	py,diop,phlog	lam
843	lg	f	py,q,bio	lam
844	w	f-m	trem,chl,py	lam
845	lg	f	py	mas
846	lg	f	py,chl	lam
847	lg	f	py,q,hb	lam
848	lg	f	bio,py,hb,q	lam
849	lg-dg	f-m	py,act	lam
850	dg	f-m	py,bio,q	lam
851	mg	f	py,bio	mas
852	mg	f-m	hb,q	mas
853	lg	f	py,bio(10%)	lam
854	lg	f	py,bio,chl	lam
855	lg	f	py,mus	lam
856	lg	f	py,q	lam
857	lg	f	bio	lam
858	lg	f	bio,py,chl	lam
859	mg	f	bio(15%),chl	lam
860	mg	f	bio(5%)	lam
861	mg	f	act,bio,q	lam
862	lg	f	bio,chl,py	mas
863	lg	f	bio,mus,py	lam
864	dg	f-m	bio,py,gt	lam
865	lg	f	bio,py	lam
866	lg	f	bio,py,chl	lam
867	lg	f	py,fel,mus,q	lam
868	w	f-m	py,q	lam
869	lg-dg	f-m	bio(15%)	lam
870	lg	f-m	py	lam
871	w	f	py,chl	lam
872	mg-dg	f	bio,hb	lam
873	mg	f	bio,q,py	lam
874	mg	f	bio,py	mas
875	mg	f	py,bio,trem,c-s	lam
876	mg	f	bio,chl	lam
877	lg-mg	f	bio,chl,q	lam
878	lg	f	cpy,py,fel,q	lam
879	lg	f-m	bio,py,gt	lam
880	lg-dg	f	bio,qtz,chl,tour	lam
881	w	f-m	q	lam
882	w	f	py,bio	lam
883	w	f-m	tour	mas
884	lg-dg	f-m	bio,q,chl,py	mas
885	w	m	bio,q	lam
886	mg	f	bio,q,hb	lam
887	mg	f	bio,hb	lam
888	dg	f	bio,mus,phlog	lam
889	mg	f-m	bio,hb,c-s	lam
890	dg	m	py,bio,phlog	lam
891	dg	f	q,py,hb	lam
892	w	c	bio	lam

893	mg	f	bio,chl,phlog	lam
894	lg-dg	m	bio,phlog	lam
895	lg-dg	m	phlog	lam
896	mg	m	bio,q	lam
897	dg	m	bio	lam
898	mg	f	bio,phlog	lam
899	mg	f	phlog,bio,hb	lam
900	mg	m	ibot(30%),hb,q	lam
901	w-lg	f-c	bio,phlog	lam
902	mg	f	phlog,q	lam
903	mg	f-m	hb,bio,phlog	lam
904	g	m	bio,phlog,hb	breccia
905	mg	f	hb	lam
906	mg	f	bio	lam
907	lg	m	q,bio,hb	lam
908	mg	f	phlog,bio,hb	lam
909	lg	f	bio,hb	lam
910	mg	f	hb,bio	lam
911	mg	m	hb,bio	lam
912	mg	f	bio,phlog	lam
913	mg	f	bio,hb,phlog	lam
1001	w	c	py,phlog	mas
1002	w	c	py,q,bio	mas
1003	w	c	py,gf	mas
1004	w	c	gf	mas
1005	w-lg	c	gf	mas
1006	w	c	gf	lam
1007	w	c	gf	mas
1008	lg-or	c	c-s,bio	lam
1009	lg-dg	f	gf,py,c-s	lam
1010	lg	f	gf,diop	lam
1011	mg	m	diop,gf,c-s	lam
1012	w	c	c-s,py,gf	mas
1013	w	m	c-s,py,gf	mas
1014	w	c	c-s	mas
1015	or	m	gf,py	lam
1016	lg	f	phlog,gf	mas
1017	w	m	c-s,gf	mas
1018	w	m	diop,py,gf	mas
1019	or	c	gf	mas
1020	lg	m	gf,py	lam
1021	or	c	c-s,gf	mas
1022	or-w	m	py,bio	lam
1023	w	m	phlog,diop	lam
1024	w	m	gf,phlog	lam
1025	w	m	gf,phlog	lam
1026	lg	f-m	gf,diop	lam
1027	lg	c	diop,phlog,hem	mas
1028	w	m	diop,gf	mas
1029	w	c	gf	mas
1030	w	c	gf,phlog,mus	mas
1031	w	m	c-s,bit,diop	lam
1032	w-mg	m	phlog,diop,gf	lam
1033	w	f	bio	lam
1034	w	f	q	mas
1035	lg	f	py,gf	lam

1036	lg-w	f	gf,py	lam
1037	lg-w	c	gf,py	lam
1038	w	c	gf	lam
1039	lg-w	m	py,bio,gf	lam
1040	lg	m	-	mas
1041	lg-w	m	c-s	lam
1042	w	c	gf	mas
1043	w	m	gf	mas
1044	w-or-lg	m	-	lam
1045	w-pk	m	gf,py	mas
1046	w	m-c	py	mas
1047	w	f-c	c-s	mas
1048	w-lg	m	gf,bio,py	lam
1049	w	c	gf,c-s	mas
1050	lg	m	gf,py	mas
1051	lg	f-c	gf	lam
1052	w	m	c-s,q	mas
1053	w-pk	c	py	mas
1054	w-lg	c	gf	mas
1055	w	c	gf	mas
1056	w	m	gf,phlog	lam
1057	w	m	gf	mas
1058	w	c	gf	mas
1059	w	m	c-s	mas
1060	lg	c	gf,py,c-s	mas
1061	lg	m	gf,c-s	mas
1062	lg	m	c-s,py,gf	mas
1063	lg-w	m	c-s,gf	mas
1064	w-lg	m	gf	lam
1065	w	m	gf	mas
1066	lg-w	m	gf,py	mas
1067	lg	m	c-s,gf	lam
1068	w	m	gf	mas
1069	w	c	gf,mus	lam
1070	w	m	c-s,gf	mas
1071	w	c	c-s,gf	lam
1072	w	m	c-s,gf	mas
1073	w-lg	c	gf	mas
1074	w	m	gf,bio	lam
1075	w-lg	m	bio,gf,py	mas
1076	w-lg	c	py,gf	lam
1077	lg	m	gf	lam
1078	lg	m	py,diop,c-s	lam
1079	w	c	c-s	mas
1080	w	c	py	mas
1081	w	c	gf	mas
1082	lg	c	gf,phlog	mas
1083	w	c	gf,py	mas
1084	w-lg	m	phlog	mas
1085	w	c	gf	mas
1086	w	m	phlog,gf,py	mas
1087	w	m	gf,bio	lam
1088	w	m	gf,phlog	lam
1089	lg	m	phlog	lam
1090	w	c	phlog,gf	mas
1091	w	c	phlog,gf	mas

1092 w	c	phlog,gf	lam
1093 w	c	c-s,gf	mas
1094 w	c	gf	mas
1095 w	c	bio,gf,py	mas
1096 w	m	gf	mas
1097 w	f-m	gf,py,c-s	mas
1098 or	c	gf	mas
1099 w	m	phlog	mas
1100 w	m	gf,c-s	mas
1101 w-lg	m-c	c-s	mas
1102 w	m	c-s,phlog	mas
1103 w	m-c	c-s,gf	mas
1104 w	m	py,phlog,c-s	lam
1105 w-lg	m	gf,phlog	mas
1106 lg	m	gf,phlog,c-s	mas
1107 w	m	c-s,gf,phlog	mas
1108 w-lg	m	c-s,gf	mas
1109 w	m	gf,c-s,phlog,py	mas
1110 w	m	gf,py	mas
1111 w-or	m	gf,phlog,c-s	mas
1112 lg	m	gf,phlog	mas
1113 w	m	gf,phlog	mas
1114 w-lg	c	gf,py	mas
1115 w-lg	c	gf,c-s	mas
1116 w	c	phlog	mas
1117 w-lg	c	gf	mas
1118 w-lg	c	gf,act	mas
1119 w-lg	c	gf	fol
1120 lg	c	gf	mas
1121 w	m	py,gf	mas
1122 w	c	gf,phlog	mas
1123 w	c	gf,act,py	mas
1124 lg	m	phlog,gf	mas
1125 w	m	gf	mas
1126 w	m	gf,c-s	mas
1127 w-lg	m	gf	mas
1128 lg	m	c-s	mas
1129 w	m	phlog	lam
1130 lg	m	gf	mas
1131 w-or	m	gf,py	mas
1132 w-lg	m	gf,bio,c-s	mas
1133 w	c	phlog,diop	mas
1134 w	c	gf	mas
1135 w	c	act,gf	mas
1136 w	c	phlog,diop	mas
1137 w-lg	c	phlog,gf,py	mas
1138 w-lg	c	phlog,gf,act	mas
1139 w	c	gf	mas
1140 w-or	c	act,phlog,gf	mas
1141 w-or	c	phlog	mas
1142 w	c	phlog,act	mas
1143 w-or	m	gf,phlog,c-s	mas
1144 w	m	c-s,gf	mas
1145 w	c	gf	mas
1146 w-or	c	c-s,py,gf	mas
1147 w-lg	c	gf,c-s	mas

1148	w-lg	c	c-s,act,gf	mas
1149	w	c	phlog,c-s	mas
1150	w-lg	c	c-s,phlog,gf	mas
1151	w	c	act,gf,py	mas
1152	w	c	gf,act	mas
1153	w-lg	c	gf,py	mas
1154	w	c	c-s,bio,phlog	mas
1155	w	c	py	mas
1156	w-or	c	py,gf	mas
1157	w	c	gf,phlog	mas
1158	w	c	phlog,c-s	mas
1159	w-lg	c	diop,c-s	mas
1160	w-or	c	phlog,py	mas
1161	w	c	phlog,py	mas
1162	or	c	phlog,gf	mas
1163	w-lg	c	gf,act	mas
1164	w-or	c	phlog,py	mas
1165	or	c	act,phlog,py	mas
1166	w-or	c	gf,phlog,py	mas
1167	w	c	gf	mas
1168	w	c	act,gf,py	mas
1169	w-lg	m	phlog,act	mas
1170	w-lg	c	phlog,act	mas
1171	w-or	c	gf	mas
1172	w-pk	m	phlog,act	mas
1173	w-or	m	gf,phlog	mas
1174	or	m	phlog,act	mas
1175	pk	m	phlog,py	mas
1176	w-lg	c	gf,phlog	mas
1177	w-lg	c	act,gf	mas
1178	w-lg	m	phlog,act	mas
1179	pk	m	bio,phlog,diop	mas
1180	w-pk	m	phlog,gf	mas
1181	w	m	phlog,act	mas
1182	pk	c	gf,py,c-s	mas
1183	w	c	py,phlog	mas
1184	w-lg	m	gf,py	mas
1185	pk	c	gf,py	mas
1186	w-pk	m	py,q	mas
1187	w-lg	m	phlog,py	mas
1188	pk	c	c-s	mas
1189	lg	m	gf,hem	mas
1190	w-pk	m	c-s	mas
1191	lg	m	act,gf,py	mas
1192	w-pk	m	py,phlog	mas
1193	w-lg	m	py,act,phlog	mas
1194	w	c	act	mas
1195	w	c	act,gf,py	mas
1196	w	c	gf,py,act	mas
1197	mg	m	py	mas
1198	w-lg	c	phlog,gf,act	mas
1199	w	c	act,py	mas
1200	w	c	act,c-s	mas
1201	pk	c	phlog,act	mas
1202	w-lg	c	act,phlog,py	mas
1203	lg	c	gf,act	mas

1204	w-lg	c	phlog,gf,act	mas
1205	pk	m	q	mas
1206	w	c	phlog,gf,py	mas
1207	w	c	py,phlog	mas
1208	w	c	act,gf,py	mas
1209	w	m	gf	mas
1210	w	m	q(5-20%)	mas
1211	w	c	phlog,gf	mas
1212	w	c	gf,py	mas
1213	w	c	phlog,gf	mas
1214	pk	m	act,py,q	mas
1215	lg	m	act,py	mas
1216	lg	m	phlog,gf,act	mas
1217	w	c	gf,py	mas
1218	w	c	phlog,gf,act	mas
1219	w	m	gf	mas
1220	w	c	phlog	mas
1221	w	c	act,py,gf	mas
1222	w	c	py,act	mas
1223	lg	m	act,phlog	mas
1224	w	c	phlog,py	mas
1225	w	c	phlog,act,gf	mas
1226	w	c	phlog,act	mas
1227	w	c	act,phlog,py	mas
1228	w	m	hem,lim	mas
1229	w	m	act,gf,py	mas
1230	w	c	phlog	mas
1231	w-pk	m	act,gf	mas
1232	w	c	phlog,act,gf	mas
1233	w-pk	c	phlog,gf,act	mas
1234	w-or	c	py,gf	mas
1235	mg	m	c-s,lim	fol
1236	pk	c	act	mas
1237	w	c	act,c-s,gf	mas
1238	w	c	gf,phlog,py	mas
1239	w	c	phlog,gf,py	mas
1240	w-lg	m	phlog,gf	mas
1241	w	c	phlog,gf	mas
1242	lg	c	phlog,gf,act	mas
1243	w	c	phlog,gf	mas
1244	w	m	act,phlog	mas
1245	w	c	act,gf,py	mas
1246	w	c	phlog,py,gf	fol
1247	w	c	gf,phlog	mas
1248	w-lg	c	phlog,py,gf	mas
1249	w	c	phlog,py	mas
1250	w	c	phlog	mas
1251	w-or	c	act,phlog,gf	mas
1252	w	c	phlog,gf	mas
1253	w-lg	m	act,gf,py	mas
1254	w-lg	m	phlog,gf	fol
1255	w	c	c-s,phlog,py	mas
1256	w	m	act,py	mas
1257	w	c	gf,phlog	mas
1258	w	c	phlog,gf,py	mas
1259	w	c	gf,phlog,py	mas

1260	w	c	phlog	mas
1261	w	c	phlog,gf,py	mas
1262	w	c	gf,phlog	mas
1263	w	c	gf,phlog	mas
1264	w-lg	c	act,gf,py	mas
1265	w	c	phlog,gf	mas
1266	w-lg	c	gf,phlog,py	mas
1267	w	c	phlog,py,gf	mas
1268	pk	c	py,phlog	mas
1269	pk	c	gf,phlog,py	mas
1270	w	c	c-s,phlog,gf	mas
1271	w	c	phlog,gf	mas
1272	w	c	py,gf	mas
1273	w-lg	c	phlog	mas
1274	w	c	act,gf	mas
1275	w-lg	c	gf	mas
1276	w	c	phlog,gf,py	mas
1277	w	c	phlog,gf	mas
1278	w	c	phlog,gf	mas
1279	w	c	phlog,gf	mas
1280	w	c	gf,py,act	fol
1281	w	c	c-s,act	mas
1282	w	c	act(30%),phlog	mas
1283	w	c	phlog,gf	mas
1284	w	c	gf,phlog	mas
1285	w	c	gf,act,phlog	mas
1286	w	c	act,gf	fol
1287	w	c	act,phlog	mas
1288	w	c	phlog	mas
1289	w	m	bio(50%)	mas
1290	w	c	gf,phlog	mas
1291	w	c	gf,py	mas
1292	w	c	py	mas
1293	w	c	phlog,py,gf	mas
1294	w	c	phlog,gf	mas
1295	w	m	phlog,py	mas
1296	w	c	gf,py	mas
1297	w	c	gf,py	mas
1298	w	c	phlog,gf	mas
1299	w	m	phlog,gf	mas
1300	w	m	phlog,gf	mas
1301	w	m	gf,phlog	mas
1302	w-or	c	gf,py	mas
1303	w-pk	c	phlog,gf	mas
1304	or	c	phlog	mas
1305	w	c	phlog,gf,py	mas
1306	w	c	qact,py	mas
1307	w	m	gf,phlog	mas
1308	pk	c	phlog	mas
1309	w-or	c	phlog,gf	mas
1310	w	m	gf,phlog	mas
1311	w	m	act	mas
1312	w	c	act,py	mas
1313	pk	c	phlog,gf	fol
1314	w	c	act	mas
1315	w	c	act,c-s,gf	fol

1316	w-or	c	phlog	mas
1317	w	c	gf,py,act	mas
1318	w	c	phlog,gf	mas
1319	or	c	phlog,act	mas
1320	w	c	c-s,act	mas
1321	or	c	phlog	mas
1322	or	c	phlog,act	mas
1323	w	c	phlog,gf,py	mas
1324	w-or	c	phlog,py,gf	mas
1325	w-lg	c	gf,phlog	mas
1326	w-lg	c	py,gf,phlog	mas
1327	w-or	c	gf,phlog	mas
1328	w	c	gf,phlog	mas
1329	w-or	c	act,phlog,py	mas
1330	w	c	phlog,gf	mas
1331	w	c	act,gf,py	mas
1332	w	c	act,py,gf	mas
1333	pk	c	gf,phlog	mas
1334	w	c	py,gf	mas
1335	w-or	c	gf,phlog	mas
1336	w-lg	m	gf,act	mas
1337	w	c	act,phlog,py	mas
1338	w	c	act,gf	mas
1339	w-lg	c	gf,py	mas
1340	w	c	phlog,gf	mas
1341	w	c	phlog,gf	mas
1342	w	c	phlog,gf	mas
1343	w	c	phlog,py	mas
1344	pk	c	phlog,gf	mas
1345	w-pk	c	act,phlog	mas
1346	w	c	py,phlog,gf	mas
1347	w	c	act,,phlog	mas
1348	pk	c	phlog,act	mas
1349	w	c	gf,phlog,py	mas
1350	w	c	phlog,gf	mas
1351	w	c	diop	mas
1352	w	c	phlog,py	mas
1353	w	c	act,phloggf	mas
1354	w	m	act,phlog,gf	mas
1355	w	m	phlog,act	mas
1356	w	c	phlog,gf	mas
1357	w	c	phlog,gf	mas
1358	w	c	act,gf,c-s	mas
1359	w	c	gf	mas
1360	w-lg	c	act,gf,phlog	mas
1361	w-or	c	py,gf	mas
1362	w	c	act	mas
1363	w	c	phlog,py,gf	mas
1364	w	m	phlog,gf	mas
1365	w	c	gf,phlog	mas
1366	w	c	phlog,act	mas
1367	w-lg	c	phlog,gf	mas
1368	w-or	c	py,act,bio(15%)	mas
1369	w	c	phlog,gf	mas
1370	w	c	c-s,gf,phlog	mas
1371	w	m	py,phlog,gf	mas

1372 w	c	gf,phlog	mas
1373 w-lg	c	phlog,gf	mas
1374 w-or	m	phlog,act,gf	mas
1375 w-or	c	gf,py	mas
1376 w-lg	c	phlog,gf,py	mas
1377 pk	c	act	mas
1378 w	c	py,gf,phlog	mas
1379 w	c	py	mas
1380 w-or	c	gf,phlog,py	mas
1381 w	c	gf,py	mas
1382 w-lg	c	act,gf	mas
1383 w	c	gf,py	mas
1384 w-pk	c	gf,act	mas
1385 w-lg	m	act,py	mas
1386 w-or	c	gf,pyl,py	mas
1387 w	c	phlog,act	mas
1388 w	c	gf,phlog	mas
1389 w	m	-	fol
1390 w-or	m	-	fol
1391 w-pk	m	-	mas
1392 lg	m	py	mas
1393 w-or	m	c-s	mas
1394 w	m	c-s	fol
1395 w-lg	m	py	mas
1396 lg	f	-	lam
1397 lg	f	phlog	lam
1398 w-lg	f	-	lam
1399 lg-or	m	-	lam
1400 lg	f	mus,py	lam
1401 w	f	bio	lam
1402 w-lg	f	phlog,bio	lam
1403 w-or	m	trem	mas
1404 lg-or	f	py,phlog	lam
1405 w-lg	f	-	lam
1406 lg-or	f	bio,phlog	mas
1407 lg	f	bit	lam
1408 w	m	hb(50%)	mas
1409 lg-or	f	hb(20%)	mas
1410 lg	f	hb(40%)	lam
1411 lg	f	bio	mas
1412 lg-or	f	bio(20%)	mas
1413 lg	m	bio(10%)	lam
1414 w-lg	m	bio	mas
1415 lg	f	bio(10%)	lam
1416 lg	f	bio	lam
1417 lg	f	bio(10%)	mas
1418 w-lg	f	py,phlog	lam
1419 lg	f	hb	mas
1420 w-lg	m	bio	lam
1421 w-lg	f	bio(10%)	lam
1422 w-or	m	bio(15%),fel	lam
1423 w	m	py	mas
1424 w-or	m	py,mus(10%)	mas
1425 w	m	gf	lam
1426 w-lg	m	act	mas
1427 w-or	f	bio(10%)	mas

1428	w-lg	m	c-s	mas
1429	w	m	-	mas
1430	w	m	bio(15%)	mas
1431	w	c	gf	mas
1432	w	m	bio,py	mas
1433	w-lg	m	py,bio	fol
1434	w	c	py,act	mas
1435	w-pk	m	bio,py	mas
1436	w	c	bio	mas
1437	w-pk	c	act,bio	mas
1438	lg	m	bio,py	mas
1439	w	c	gf,bio	mas
1440	w-lg	c	qact(20%)	mas
1441	lg	m	act,bio	mas
1442	w-lg	m	bio	mas
1443	w-lg	c	gf,phlog	mas
1444	w-lg	c	act,py	mas
1445	w-lg	m	bio(10%),act	mas
1446	w-lg	m	phlog,py	mas
1447	w-or	c	act	fol
1448	w-lg	m	bio,act	mas
1449	w-or	c	phlog,act	mas
1450	w	c	phlog,act	fol
1451	w-lg	m	bio,act	lam
1452	w-lg	m	phlog,act	fol
1453	w-lg	c	phlog,gf	mas
1454	w-lg	m	phlog	mas
1455	w-lg	m	phlog	mas
1456	or	m	act	mas
1457	w-lg	c	phlog,gf,py	mas
1458	w-lg	c	phlog,gf	mas
1459	w	m	phlog,act,py	mas
1460	w	c	phlog,py	mas
1461	w	m	act	mas
1462	w	m	act,py,bio	mas
1463	w	m	phlog	fol
1464	w-lg	m	phlog,act,py	mas
1465	w-or	c	phlog,act	mas
1466	w-or	m	phlog	mas
1467	lg	m	act,py	mas
1468	w-lg	m	act,bio	mas
1469	w-lg	m	act,bio	mas
1470	w-lg	m	bio,act	mas
1471	w-lg	c	gf,py	mas
1472	w-lg	m	phlog,act	mas
1473	w-lg	m	phlog,py	mas
1474	w-lg	c	phlog,py	mas
1475	w-lg	c	gf,py	mas
1476	w-dg	m	hb(10%),phlog	mas
1477	lg	m	act,phlog	mas
1478	lg	m	act,py,phlog	mas
1479	w-lg	m	act(15%),phlog	fol
1480	w-lg	m	bio,act	fol
1481	lg	m	act(10%),phlog	mas
1482	lg	m	phlog,py	mas
1483	w-lg	m	act,phlog	mas

1484	w-lg	m	phlog,act	mas
1485	w-lg	c	act,bio	mas
1486	lg	c	phlog,py	mas
1487	w-lg	c	phlog,py	mas
1488	w-lg	c	phlog,act	mas
1489	w-lg	m	bio,act	mas
1490	w-lg	c	bio,act	mas
1491	w-lg	c	phlog,py	mas
1492	w-lg	c	phlog,gf	mas
1493	w	c	phlog	mas
1494	w-lg	c	phlog,gf	mas
1495	w-lg	c	phlog	mas
1496	w-lg	c	phlog,gf	mas
1497	mg	m	phlog	lam
1498	w-lg	m	bio,py	fol
1499	w	c	phlog,gf	mas
1500	w-lg	c	diop,gf	mas
1501	w-lg	c	py,trem,bio	lam
1502	mg	f	trem,q,py,c-s	lam
1503	lg	f	py,hb,c-s	lam
1504	w	f-m	-	mas
1505	mg	f	py	lam
1506	lg	f	trem,bio	lam
1507	lg	f	py	lam
1508	w-lg	f	trem,bio,py	mas
1509	w-dg	f	bio,py	lam
1510	lg	f	trem	mas
1511	dg	m-c	bio,py	lam
1512	mg	m	trem,py	lam
1513	mg	c	c-s,bio	mas
1514	dg	f-m	py	lam
1515	lg	f	trem,bio,py	lam
1516	dg	f	trem,q,bio	lam
1517	dg	f	trem,py	lam
1518	lg-dg	f	trem,py	lam
1519	lg-dg	f-m	bio,py,hb	lam
1520	dg	m	py,hb	mas
1521	lg-dg	m-c	trem,py	lam
1522	lg-dg	m	bio,py	lam
1523	lg-dg	f-m	bio,py	lam
1524	lg-dg	f-m	bio,py,c-s	lam
1525	dg	m	bio,py	lam
1526	lg-dg	m	phlog,py,c-s	lam
1527	dg	f	py,phlog,c-s	lam
1528	lg-dg	f-m	phlog,py	lam
1529	or	m-c	c-s,py	mas
1530	or	m	phlog,c-s	mas
1531	mg	f-m	trem,py	lam
1532	w	f-m	trem,py	mas
1533	dg	f-m	trem,hem	lam
1534	lg-dg	m	py	lam
1535	lg-dg	f	trem(30%),py	lam
1536	dg	f-m	trem,py	lam
1537	lg-dg	f-m	phlog,py	lam
1538	lg-dg	f	trem,py	lam
1539	lg-dg	m	phlog,py	lam

1540	lg-dg	f	trem	lam
1541	lg-dg	m	c-s,trem	mas
1542	lg-dg	f	c-s,py	lam
1543	lg	m-c	diop,py	mas
1544	lg-dg	m	phlog,py	lam
1545	lg-dg	m-c	phlog,py,diop	lam
1546	lg-w	m-c	c-s,phlog	mas
1547	dg	f	c-s	lam
1548	lg-dg	f-m	py	lam
1549	m	f-m	-	mas
1550	lg-dg	m	py	lam
1551	lg-dg	f-m	trem(30%),py	mas
1552	lg-dg	f	py	lam
1553	lg-dg	f-m	py	mas
1554	lg-dg	m	phlog,c-s	lam
1555	lg-dg	f	c-s,phlog,py	lam
1556	lg-dg	f	c-s	lam
1557	w	f-m	c-s	lam
1558	lg-dg	f	py	lam
1559	lg	f	trem	lam
1560	w	f	py,talc	mas
1561	lg	f	talc,py,q	lam
1562	or	f	py	lam
1563	dg	f	diop	lam
1564	lg-dg	m-c	trem,py	lam
1565	lg-dg	m	tem,py,diop	mas
1566	lg	f-m	trem	lam
1567	dg	f	trem,py	lam
1568	w	f	trem,py,q	mas
1569	lg-dg	f-m	phlog,py	lam
1570	dg	c	trem,py	lam
1571	lg-dg	c	phlog,c-s,py	lam
1572	lg	c	trem(40%),py	mas
1573	lg-dg	f	py	lam
1574	lg	f-m	trem,py,c-s	lam
1575	lg-dg	f	py	lam
1576	lg	f	phlog,py	lam
1577	lg	f	rem,py	lam
1578	lg	m-c	py	lam
1579	lg-dg	f	trem,phlog,c-s	lam
1580	lg	f	py	lam
1581	lg	m	c-s,phlog,py	lam
1582	lg-dg	f	trem,py	lam
1583	lg-dg	m	phlog,py	lam
1584	lg-dg	m	py	lam
1585	dg	f	py	lam
1586	lg	m-c	trem,py	mas
1587	w	m	trem,py,phlog	mas
1588	lg-dg	m	phlog,py	lam
1589	w	c	ph,phlog,c-s	mas
1590	lg-dg	c	phlog,py	lam
1591	lg-dg	c	c-s,py	lam
1592	lg-dg	f	py	lam
1593	lg-dg	f	trem,phlog,py	lam
1594	lg-dg	m	trem,phlog,c-s	mas
1595	lg-dg	f-m	py	lam

1596	lg	m	py	lam
1597	lg-dg	f-m	trem,py	lam
1598	lg-dg	m	py	lam
1599	dg	f	pyl,py	lam
1600	dg	f	c-s,py	lam
1601	dg	f	c-s,trem,phlog	lam
1602	dg	f	bio,c-s	mas
1603	lg-dg	f-m	trem,py	lam
1604	lg-dg	m	py,phlog	lam
1605	lg	f	trem(30%)	mas
1606	lg-dg	m	c-s,py	lam
1607	lg	m	py	lam
1608	dg	f	py	mas
1609	lg-dg	f	py	lam
1610	lg-dg	f	py	lam
1611	lg-dg	f-m	py,c-s	lam
1612	lg-dg	m-c	gf,phlog	lam
1613	w-mg	f	c-s(20%)	lam
1614	lg-dg	f-m	gf,py	lam
1615	lg	m	gf,phlog,py	mas
1616	lg-dg	f	trem,py	lam
1617	lg-dg	m	trem,phlog,py	lam
1618	lg	f-m	trem,phlog	lam
1619	lg-dg	f-m	phlog,diop	lam
1620	lg	m-c	gf,c-s,py	lam
1621	lg-dg	m	dip,py	lam
1622	lg-dg	f-m	gf,py,diop	lam
1623	lg-dg	f-m	c-s,gf	lam
1624	lg	f-m	diop,gf,phlog	lam
1625	lg-dg	m	gf,diop,phlog	lam
1626	lg-dg	m	gf,py	lam
1627	lg	f-m	gf,py	lam
1628	lg	m	py	lam
1629	lg-dg	f-m	phlog,py,diop	lam
1630	lg	m-c	c-s,gf,py	lam
1631	lg	f-m	c-s,py,phlog	lam
1632	lg-dg	f-m	c-s,phlog,gf	lam
1633	lg	c	gf,py,phlog	mas
1634	lg	f	diop,py	lam
1635	bf	c	py,gf,c-s	mas
1636	lg	f	c-s,py,gf,q	lam
1637	lg	m-c	gf,py	mas
1638	lg	f	py	mas
1639	dg	f	q,bio,py	mas
1640	lg	m	c-s,py,gf	mas
1641	dg	f	c-s,py,gf	lam
1642	w-lg	f-m	gf,diop	lam
1643	mg	f	gf	lam
1644	lg	m-c	gf	lam
1645	lg	f	trem,py,gf	lam
1646	lg-dg	m-c	gf,c-s	lam
1647	lg-dg	m	trem,gf,py	lam
1648	bf	m	phlog,py	lam
1649	lg-dg	f	gf,py,c-s	lam
1650	lg	f-m	trem,gf,py	lam
1651	w-lg	f	diop,py	mas

1652 lg	f	gf,py,diop	lam
1653 mg	c	py	lam
1654 lg	m	c-s,diop	lam
1655 lg	f-m	c-s,gf	lam
1656 dg	c	py,diop	lam
1657 dg	f-m	gf,py	lam
1658 dg	f	gf,diop	lam
1659 lg-dg	f-m	py,gf,c-s	lam
1660 lg-dg	f	gf,py,diop	lam
1661 dg	f	py	lam
1662 lg-dg	f	py	lam
1663 dg	f	py	lam
1664 dg	f	diop	lam
1665 w	m-c	gf,py	mas
1666 lg	f-m	diop,c-s	lam
1667 lg-dg	f-m	diop,py	lam
1668 lg	f-m	-	lam
1669 lg	f-m	diop,phlog	lam
1670 w-lg	f	trem,py	lam
1671 w	f	trem,py,q	lam
1672 lg	f-m	c-s,py	lam
1673 lg-dg	f	py	lam
1674 dg	f	-	lam
1675 dg	f	phlog,py,diop	lam
1676 dg	f	py	lam
1677 lg-dg	f-m	c-s	lam
1678 lg-dg	f-m	diop,py	lam
1679 lg	m	diop	lam
1680 lg-dg	f	py	lam
1681 dg	f-m	diop	lam
1682 dg	f-m	phlog,py,diop	lam
1683 lg-dg	f	c-s	lam
1684 lg-dg	f	py	lam
1685 lg-dg	f	c-s	lam
1686 dg	f	-	lam
1687 lg	f	py	mas
1688 lg	f	c-s	lam
1689 dg	f-m	py	lam
1690 w-lg	f-m	py,c-s	lam
1691 lg-dg	f	trem	lam
1692 w-lg	m	py,diop	lam
1693 lg-dg	f-m	c-s,py	lam
1694 lg-dg	f	diop	lam
1695 lg-dg	m	diop,trem	lam
1696 w	f-m	py	lam
1697 lg	f	py	lam
1698 lg-dg	f-m	py	lam
1699 dg	f	diop,py	lam
1700 lg	f	diop,py	mas
1701 lg	f	diop	mas
1702 w	f-m	diop,py	mas
1703 w	f-m	-	mas
1704 lg-dg	f	gf,py	lam
1705 lg-dg	f	py	lam
1706 lg-dg	f-m	trem,py	lam
1707 lg-dg	f	c-s,trem	lam

1708	lg	f-m	diop	mas
1709	lg	f	trem,py	mas
1710	lg-dg	f	trem,diop	lam
1711	lg	f-m	diop	lam
1712	dg	f	py	lam
1713	lg-dg	f	diop,py	lam
1714	lg	f-m	diop,py	lam
1715	lg-dg	f-m	gf,py,c-s	lam
1716	lg	f-m	gf,py	lam
1717	lg	m	py	mas
1718	lg-dg	f	c-s,py	lam
1719	lg-dg	f-m	py	lam
1720	lg-dg	f-m	phlog,diop	lam
1721	lg-dg	f-m	diop,py	lam
1722	lg-dg	f-m	gf,py	lam
1723	lg-dg	f-m	gf,py	lam
1724	lg-dg	f-m	phlog,gf,diop	lam
1725	lg-dg	f-m	gf,py	lam
1726	lg-dg	f	gf,py	lam
1727	lg-dg	m	py	lam
1728	lg-dg	f-m	phlog,py	lam
1729	lg	m-c	gf,diop	lam
1730	w-lg	m-c	diop	lam
1731	lg	m	gf,py,c-s	lam
1732	w-lg	f-m	py,diop	mas
1733	w	f-m	diop,phlog,py	lam
1734	w-lg	f-m	phlog,diop	mas
1735	lg	f-m	gf,py,phlog	lam
1736	lg	m-c	py	mas
1737	lg-dg	m-c	py,q	lam
1738	lg-dg	f	diop,py	mas
1739	dg	c	py	lam
1740	w-lg	f	py	lam
1741	lg-dg	f	gf,py	lam
1742	lg-dg	f-m	gf,diop,py	lam
1743	lg-dg	m-c	gf,py,c-s	lam
1744	lg-dg	m	gf,py,c-s	lam
1745	lg	f-m	trem,py	lam
1746	w-lg	m	c-s,py	lam
1747	lg-dg	f	gf,py,phlog	lam
1748	lg	f-m	diop,py	lam
1749	bf	m	gf,py,trem	lam
1750	lg	f-m	c-s,gf,py	lam
1751	lg-dg	f	diop,py,gf	lam
1752	lg	m-c	diop,phlog,gf	lam
1753	lg	f-m	trem,gf,c-s	lam
1754	lg-dg	m	gf,py,phlog	lam
1755	lg-dg	f	phlog,gf,py,c-s	lam
1756	mg	f	trem,py,diop	mas
1757	lg-dg	f-m	phlog,gf,py	lam
1758	lg	f-m	phlog,c-s,gf	lam
1759	lg	f	c-s,py	mas
1760	w	f	trem(15%)	mas
1761	dg	f-m	phlog,py,trem	lam
1762	lg-dg	f	trem(15%),serp	mas
1763	lg-dg	f	gf,phlog,py	lam

1764	lg-mg	m	gf,phlog,py	lam
1765	lg	f-m	gf,phlog,py	mas
1766	lg-dg	f-m	gf,py,c-s	lam
1767	lg	f-m	diop	mas
1768	lg	f	c-s,gf	lam
1769	bf	f-m	diop,phlog,gf	lam
1770	lg	f	diop,c-s,phlog	lam
1771	lg	f-m	trem,py	lam
1772	lg	f-m	gf,diop	lam
1773	lg-dg	f	diop,c-s,py	lam
1774	lg	f-m	gf	lam
1775	lg-dg	f-m	gf,pyl,py	lam
1776	w-dg	f	gf	lam
1777	mg	f	gf,py	lam
1778	lg	f-m	gf,phlog,trem	mas
1779	lg	f	phlog,diop	lam
1780	lg	f	diop	mas
1781	lg	f-m	trem,c-s,gf	lam
1782	bf	f-m	py	mas
1783	lg	f-m	phlog,gf	lam
1784	lg-bf	f-c	phlog,py	mas
1785	lg-dg	f-m	gf,py	mas
1786	lg	f-m	c-s,talc,phlog	lam
1787	mg	f-m	c-s,py	lam
1788	lg	f-m	py	mas
1789	lg-dg	f	serp	lam
1790	lg	f-m	phlog,py	lam
1791	w-lg	f	gf,phlog	lam
1792	bf	m-c	gf,py	mas
1793	lg-dg	m	gf,phlog	lam
1794	lg	f-m	phlog,gf,py	lam
1795	lg	f-m	gf,py	lam
1796	lg-dg	f-m	-	lam
1797	w-lg	f-m	gf,phlog	lam
1798	lg-dg	f-m	gf,phlog	lam
1799	lg-dg	m	talc,gf	mas
1800	dg	f	q,py,diop	lam
1801	lg	f-m	q,py,phlog	lam
1802	lg-dg	c	py	lam
1803	lg	f-m	diop,gf	mas
1804	lg	f-m	gf,py,c-s	lam
1805	w-mg	m-c	gf,phlog,py	lam
1806	lg-dg	f	py	lam
1807	dg	f	q,py	lam
1808	dg	f	py	lam
1809	w	f	phlog,py	lam
1810	lg	m-c	py	mas
1811	lg-dg	m	phlog,c-s	lam
1812	lg-dg	m	c-s,gf	lam
1813	lg-dg	f	trem	lam
1814	lg-bf	f	trem,py	lam
1815	lg	f	py,c-s,diop	lam
1816	w	f	c-s,py	mas
1817	mg	f-m	trem,diop	lam
1818	lg-dg	f	py	lam
1819	lg	m-c	py	lam

1820	or-lg	f-m	py	lam
1821	dg	f-m	py	lam
1822	bf	f-m	diop,py,c-s	lam
1823	bf	f-m	py	lam
1824	lg-dg	f	py	lam
1825	lg-dg	f	py	lam
1826	lg-dg	f	phlog,py	lam
1827	lg	f	py	lam
1828	lg-dg	f	trem,phlog	lam
1829	lg-dg	f-m	trem,py	lam
1830	lg-dg	f	phlog,talc,py	lam
1831	lg-dg	f	trem,py	lam
1832	lg	m	trem,py	lam
1833	lg-bf	f	phlog,py	lam
1834	lg-dg	f	trem,py	lam
1835	lg-dg	f	trem,py	lam
1836	lg-dg	f	trem,phlog	lam
1837	lg-dg	f	phlog	lam
1838	lg-dg	f	py	lam
1839	lg-dg	f-m	trem,phlog,py	lam
1840	lg-dg	f	phlog,trem,py	lam
1841	lg-dg	f-m	phlog,trem,py	lam
1842	lg-dg	f-m	phlog,py	lam
1843	lg-dg	f	trem,phlog,py	lam
1844	lg-dg	f	phlog,py	lam
1845	lg-dg	f-m	q,py,phlog	lam
1846	mg	f	phlog,py,hb	lam
1847	w	f	trem,diop	lam
1848	lg-dg	f-m	py	lam
1849	lg-dg	f	diop,py	lam
1850	lg-dg	f	trem,py	lam
1851	lg-dg	f	phlog,py	lam
1852	lg-dg	f	phlog,py	lam
1853	lg-dg	f-m	py,phlog	lam
1854	lg-dg	f	py	lam
1855	lg-dg	f	trem,diop	lam
1856	lg-dg	f-m	trem,phlog,py	lam
1857	lg-dg	f-m	trem,py	lam
1858	lg-dg	f	phlog,py	lam
1859	mg	f	-	lam
1860	lg-dg	f	phlog,py	lam
1861	dg	f	q,py	lam
1862	lg-dg	f	py	lam
1863	lg-dg	f	gf,py	lam
1864	lg	f	diop,py	lam
1865	dg	f	q,py	lam
1866	lg	f	py	lam
1867	lg-dg	f-m	trem,py	lam
1868	lg-dg	f	phlog,py	lam
1869	lg-dg	f	phlog,py	lam
1870	lg	f	phlog,q,trem	mas
1871	lg	f	ph,phlog	lam
1872	lg	f	gf,phlog,py	lam
1873	lg-dg	f	py	lam
1874	lg	f	trem,q	lam
1875	lg-dg	f	diop,py,phlog	lam

1876	lg-dg	f	q,py	lam
1877	lg-dg	f	trem,py	lam
1878	lg	f	hb,gf,py,phlog	lam
1879	lg-dg	f	gf,py,diop	lam
1880	lg	m	gf,phlog,py	lam
1881	lg-dg	m-c	gf,py	lam
1882	lg	m-c	gf,py	mas
1883	lg	f	gf,diop,py	lam
1884	lg-dg	f	phlog,gf,diop	lam
1885	lg	f	diop,gf,py	lam
1886	lg	f-m	gf,phlog,py	lam
1887	lg	f-m	gf,phlog,py	lam
1888	lg-dg	m	py,gf,hb	lam
1889	lg	f-m	gf,py,phlog	lam
1890	lg	f	gf,phlog,py	mas
1891	lg	f-m	gf,phlog,py,diop	mas
1892	lg	f-m	gf,phlog,py	lam
1893	lg	m-c	gf,py	lam
1894	lg-dg	f-m	gf,py,phlog	lam
1895	lg	f	phlog,gf,py	lam
1896	lg-dg	f	gf,py	lam
1897	mg	f-m	gf,phlog,py	lam
1898	w	f-m	gf,q,trem	mas
1899	lg-dg	f	trem,gf,phlog	lam
1900	lg-dg	f	gf,py,q	lam
1901	lg-dg	f-m	phlog,py	lam
1902	lg-dg	f-m	c-s,gf,phlog,py	lam
1903	lg-dg	f	gf,py,phlog,c-s	lam
1904	lg-dg	f	trem,py,c-s,gf	lam
1905	lg-dg	f	trem,py	lam
1906	lg	f-m	trem,phlog,py	mas
1907	lg	m-c	py	mas
1908	lg	f-m	py,phlog,gf	lam
1909	lg-dg	f-m	gf,py,phlog	lam
1910	lg-dg	f-m	gf,py,phlog	lam
1911	lg-dg	f	trem,phlog,py	lam
1912	w-lg	m	diop,phlog	lam
1913	w-lg	m	gf,phlog,py	lam
1914	lg-mg	f	gf,py,phlog	lam
1915	w-lg	f-m	phlog,py	lam
1916	lg	f-m	phlog,gf	lam
1917	lg	f-m	gf,phlog,py	lam
1918	lg-dg	f	phlog,gf,py	lam
1919	lg	f-m	gf,py	lam
1920	lg	f-m	phlog,gf,diop	lam
1921	w	f-m	c-s,gf,phlog,py	lam
1922	lg	f	phlog,py,c-s	lam
1923	lg-dg	f	c-s,gf,phlog	lam
1924	lg	f-m	gf,py,phlog	lam
1925	lg	f-m	py,gf,phlog	lam
1926	lg-dg	f-m	gf,py,diop	lam
1927	lg-dg	f-m	gf,py,phlog	lam
1928	lg	f	phlog,gf	mas
1929	lg	f	phlog,gf	lam
1930	lg-dg	f	diop,phlog,py	lam
1931	lg	f	c-s,phlog	lam

1932 lg	f	phlog,gf	mas
1933 lg	c	gf	lam
1934 lg	m	act,phlog	mas
1935 lg	c	phlog,gf	mas
1936 lg	c	gf,act,py	mas
1937 lg	m	act,phlog	mas
1938 lg	m	phlog,act	mas